WEATHERLY INDEX 820

CATALOG NO. 227B

Reprinted April, 1974

Supersedes Nos. 227, 227A and Supplement
Nos. B-237 & B-247

Blackhawk™
HAND TOOLS

Litton HAND TOOLS
New Britain, Connecticut 06050

Index

Blackhawk™ HAND TOOLS

Page

Adapters, Ratchet 5, 8, 13, 17
Adapters, Reducing 8, 13, 17, 20
Adapters, Increasing 8, 13, 17
Adapters, Sliding Tee Head 4,12,17,20
Adjusting Screw Drivers 47
Adjustable Wrenches 44
Audioscope, Improved 41
Awls 52
Ball Joint Separators 66
Ball Joint Suspension Sockets 18
Ball Pein Hammers 70
Bars, Cross 7, 20
Battery Lifters 41
Battery Pliers 31
Battery Terminal Pullers 77
Battery Terminal Clamp Spreader 31
Benders Point Aligning 40
Benders, Tubing 53
Bendix Brake Spring Tool 65
Bezel Nut Pliers 32
Body Repair Tools
- Blocks, General Purpose Dolly 72
- Blocks, Fender Dolly 72
- Blocks, Heel Dolly 72
- Blocks, Toe Dolly 72
- Files, Body 59
- Hammers 71
- Panel Cutter 72

Body Files 59
Body Hammers 71
Body Dent Pullers 77
Bolt & Rivet Cutter 54
Box Wrenches 35, 36, 38
Box Wrenches — Ratcheting 45
Boxes, Tool 26, 27, 28
Brake Service Tools
- Bendix Brake Tools 65
- Brake Adjusting Feeler Gauge 43
- Carbon Scrapers, Flexible 66
- Gasket Scrapers 66
- Spring Pliers 30

Brushes, Wire 63
Brush & Scraper, Heavy Duty 63
Budd Wheel Sockets 18, 20
Bumpers, Fender 72
Bushing Remover & Replacing Set 78
Bushing Reamers 78
Busters, Nut 54
Cabinets, Tool 26, 27, 28
Calipers 83
Cape Chisels 57
Carbon Cleaning End Brush 63
Carbon Scrapers 66
Carpenter Tools 87, 88, 89
Center Punches 58
Chain Wrenches 44
Chasers, Spark Plug Thread 79
Chasers, Universal Outside Thread 79
Chests, Tool 26, 27, 28
Chisels
- Cape Chisels 57
- Chisel & Punch Set 56
- Cold Chisels & Sets 56, 57
- Diamond Point Chisels 57
- Round Nose Chisels 57

Chevrolet Distributor Socket 5
Cleaners, Piston Groove 67, 85
Cleaners, Ring Groove Heavy Duty 67
Cleaners, Oil Line 53
Clutch Head Screw Driver 47
Clutch Head Screw Driver Bits 9
Combination Wrenches 34, 38, 39
Commutator Smoothie 66

Page

Compressors, Standard Piston Ring 67
Compressors, Ratchet Piston Ring 67
Compressors, Truck-Tractor Diesel 67
Compressors, Valve Spring 84
Compressors, Spring 65
Cotton Spindle Sockets 15
Cross Bars 7, 20
Cutter, Tube 53
Cutting Pliers 29, 31
Cylinder Bore Gauge 85
Cylinder Ridge Reamers 78, 84
Deep Flex Sockets 9
Degreasing Knives 66
Diagonal Cutters 28
Diagonal Pliers 28
Dial Test Indicator Set 83
Diamond Point Chisels 57
Dies & Taps 62
Dies, Double Hex 62
Diesel Piston Ring Compressors 67
Dinging Hammers 71
Distributor-Carburetor Adjusting Tool 40
Distributor Socket, Chevrolet 5
Distributor Wrenches 40
Dolly Blocks 72
Door Clip Removal Tool 30
Double Hex Dies 62
Drag Link Socket 8, 13
Drain Plug Wrench, Universal 64
Drain Plug Wrench, Volkswagen 64
Drawers, Metal 26, 27, 28
Drills, High Speed 60, 61
Drills, Packaged 60
Drill Sets 61
Duckbill Tin Snips 52
Electric Tester 41
Electricians Standard Pliers 29
Electricians Type Screw Drivers 47
Etching Pencil 54
Expanders, Piston Ring 85
Extensions 4, 7, 12, 17, 20
Extractors, Screw 61
Extractors, Eccentric Stud 13
Feeler Gauges 42, 43
Feeler Gauge Blades 43
Feeler Gauge Blade Holders 43
Fender Dolly Blocks 72
Files, Bastard 59
Files, Body 59
Files Holders 59
Files, Thread Restorer 79
Finishing Hammers 71
Flange Type Wheel Pullers 75
Flaring Tool, Tube 52
Flare Nut Wrenches 33, 37
Flex Handles 4, 7, 12, 17
Flex Ratchet 4, 7, 12
Flex Sockets 9
Flexible Carbon Scraper 66
Flexible Hacksaw Blades 58
Flywheel Pullers (Small Engines) 85
Fuel Filter Wrench 64
Gasket Hammers 70
Gasket Scrapers 66
Gauges, Cylinder Bore 85
Gauges, Feeler 42, 43
Gauges, Micrometer Standard 82, 83
Gear & Pulley Puller 73, 76
Generator Bearing & Battery Terminal Puller 77
Grease Fitting Tools 64
Grip Handles 7

Page

Groove Cleaner, Piston Ring 67
Gyro-Flex Ratchets 7
Hacksaw Blades 58
Hacksaw Frames 58
Half Moon Wrenches 35
Hammers
- Ball Pein 70
- Body & Fender 70, 71
- Dinging 71
- Finishing 71
- Gasket Hammers 70
- Handles 71
- Nail (All Steel) 70
- Mallets, Rubber 70
- Sledges 70
- Soft Face 70
- Tips for Soft Face Hammers 70

Handles, Flex & Slide Tee 4, 7, 12, 17, 20
Handles Grip 7
Handles, Spinner 4
Handles, Hammer 71
Harmonic Balancer Puller 75
Headlight Spring Tools 54
Hex Key Wrenches & Sets 45
Hex Key Wrench Sets, Metric 45
High Performance Tool Sets 86
High Speed Drills & Sets 60, 61
Holder Retriever 51
Holding Tools 51
Hose Clamp Pliers 31
Hub Puller 76
Ignition Feeler Gauges 42, 43
Ignition Point Files 41
Ignition Pliers 30
Ignition Wrenches & Wrench Sets 33, 35, 38
Ignition Sets 38, 40, 41
Impact Extensions 7, 12
Impact Universal Joints 13
Impact Sockets 14, 15, 16, 18, 21
Inspection Mirrors 53
Jimmy Bars 57
Knives, Degreasing 66
Knives, Shop 55, 87
Knives, Pocket 55
Lathe, Valve Refacer 84
Lever Jaw Wrenches 45
Lifters, Valve 68
Lineman's Pliers 29
Lining Up Punch 58
Lock Clip Removal Tool 30
Lock Ring Pliers 31
Long Chisels 57
Long Taper Punches 58
Lube Tools 64
Magnetic Key Inserter 84
Magnetic Pick-Up Tools 51
Mallets, Rubber 70
Master Tool Set 23
Metal Tool Chests 26, 27, 28
Metric Tools
- Socket Wrenches & Sets 9, 11, 14
- Hex Key Wrench Sets 45
- Volkswagen Drain Plug Wrench 64
- Wrenches, Flat 33, 34, 39

Mirrors, Inspection 53
Micrometers
- Ball Anvil 82
- Depth 83
- Outside Micrometers 82, 83
- Range 82
- Special Automotive 83
- Standard Test Gauges 82

Index

Page

Micrometer Torque Wrench 80
Modulator Wrench 45
Muffler Cut-Off 49
Needle Nose Pliers, Curved 29
Nut Busters 54
Nut Drivers 51
Offset Screw Drivers 47
Oil Line Cleaner Kit 53
Open End Wrenches & Sets 33, 37, 38
Paddles, Solder 72
Panel Cutter 72
Parrot Nose Pliers 30
Phillips Screw Drivers 46, 47, 48
Pickup Tools 51
Pin Punches & Sets 56, 58
Pinch Bars 57
Pipe Wrenches 44
Piston Groove Cleaners 67
Piston Ring Compressors 67
Piston Service Tools 67
Pliers
- Battery 31
- Bezel Nut 32
- Brake Spring 30
- Combination Slip Joint 29
- Diagonal 29
- Diagonal Cutting 29
- Electrician's & Waterpump 30
- Flush Bolt Sidecutter 29
- Hose Clamp 31
- Ignition 30
- Large Rib Joint 30
- Linesman's 29
- Lock Ring 31
- Long Nose Sidecutting 29
- Midget 32
- Needle Nose 32
- Parrot Nose 30
- Rib Lock 30
- Slip Joint 29
- Snap Ring 31
- Spark Plug Terminal 31
- Wiring 31

Point Benders 40
Power Sockets 14, 15, 16, 21
Prick Punch 58
Pry and Pinch Bars 57
Pullers
- Attachments 73, 74, 75, 76, 77
- Battery Terminal 77
- Blackhawk 76
- Body Dent Puller 77
- Flange Type Wheel Puller 75
- Flywheel, Small Engines 85
- Gear Pullers 73, 74, 76
- Harmonic Balancer Puller 75
- Legs for Pullers 76
- Reversible Jaw Gear Puller 73
- Slide Hammer Puller Set 75
- Standard 2 Arms Pullers 77
- Steering Wheel Pullers 76
- Universal Hub Puller 76
- Universal Joint Tool 77
- Wheel Pullers 75

Punches 56, 57, 58
Punch & Chisel Sets 56
Ratchet Adapters 5, 8, 13, 17
Ratcheting Box Wrenches 45
Ratchet Wrenches, Reversible 4, 7, 12, 17, 20
Reamers 78, 84
Reciprocal Valve Grinder 84
Reversible Screw Drivers 47
Ring Groove Tools 67
Rib Lock Pliers 30
Rivet Busters 54
Rules, Steel Tape 52
Saws, Hacksaws 58
Scrapers, Carbon 66

Page

Scratch Awl 52
Screw Driver Bits 9
Screw Drivers
- Adjusting 47
- Cabinet 50
- Clutch Type 47
- Electrician's 47
- Heavy Round Shank 46
- Heavy Square Shank 46
- Offset Regular & Offset 47
- Phillips Alloy Blade 46
- Phillips, Plastic Handle 46, 48
- Phillips, Stubby 46, 48
- Pocket Size 46, 48
- Reversible 47
- Screw Holding 47
- Sets 50
- Spark Detecting 47
- Standard Blade 46
- Sure-Grip Holding 47

Screw Extractors 61
Screw & Nut Driving Tools 48, 49
Screw Starters 49
Sets, Open End, Box, Tappet & Combination Wrenches 37, 38, 39
Sets, Socket Wrench 6, 10, 11, 14, 15, 16, 19, 21
Shock Absorber Link Separator 66
Side Cutter Pliers 29
Sliding Tee Handle 4, 12, 17
Slip Joint Pliers 29
Small Engine Tools 84, 85
Snap Gap Point Setting Tool 41
Snap Ring Pliers 31
Snips 52
Socket Adapters 8, 13, 18, 20
Socket Kits, Wheel Lug 14
Socket Wrenches
- ¼" Drive 5
- ⅜" Drive 8, 9
- ½" Drive 13, 14, 15
- ¾" Drive 18
- 1" Drive 21
- Metric 9, 11, 15

Socket Wrench Sets
- ¼" Drive 6
- ⅜" Drive 10, 11
- ½" Drive 16
- ¾" Drive 19
- 1" Drive 21
- Metric 9, 11, 15

Soft Face Hammers 70
Solder Paddles 72
Spark Detecting Screw Driver 47
Spark Plug Gapping Tool 41
Spark Plug Sockets 9, 15
Spark Plug Special Wire Gauge 43
Speeder Handles 7, 12
Spinners, Ratchet 8
Spinner Handles 4
Split Lock Inserter, Tapered 69
Spring Compressors 65
Starter Switch 40
Steel Tape Rules 52
Steering Wheel Pullers 76
Stillson Wrenches 44
Stud Extractors 13
Super Tool Set 24
Taps & Dies 62
Taper File 59
Taper Punches 58
Tape Measures, Automatic 50
Tape Rules, Steel 52
Tappet Wrenches 33, 37
Thread Chasers, Universal Outside 79
Thread Chasers, Spark Plug 79
Thread Restorer Files 79
Tin Snips 50
Tire & Lube Tools 64

Page

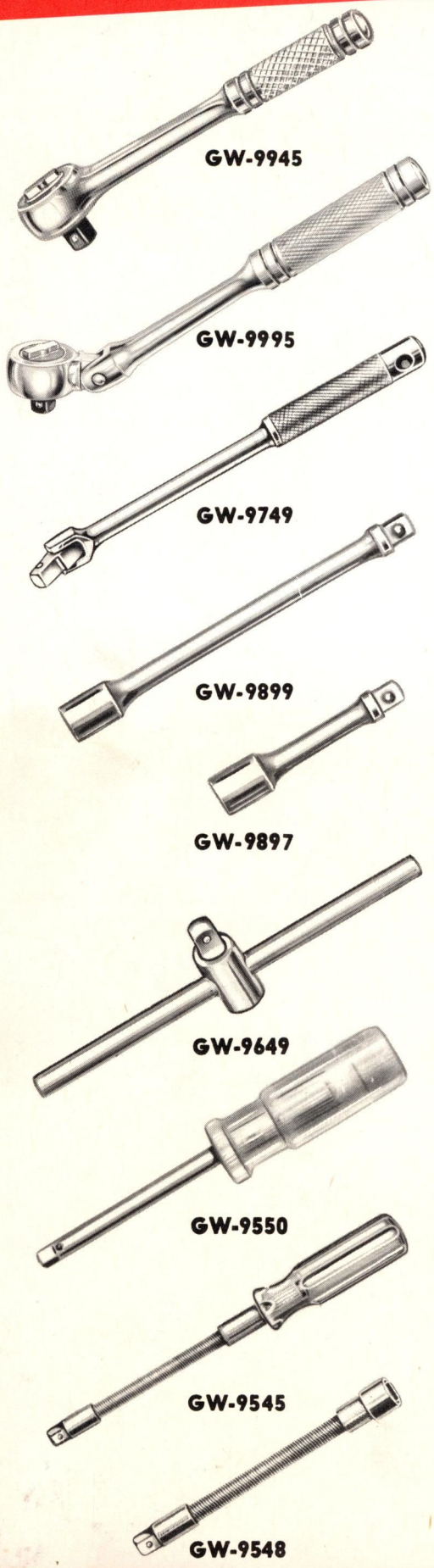
Tool Chests 26, 27, 28
Torque Wrenches 80, 81
Tube Cutters 53
Tube Flaring Tool 52
Tubeless Tire Bead Expander 64
Tubing Benders 53
Universal Joints 5, 8, 13, 17
Universal Oil Filter Wrench 64
Valve Grinders, Reciprocal 84
Valve Lifters 69
Valve Service Tools 69
Valve Spring Compressor 84
Valve Refacer Lathe 84
Vernier Calipers 83
Volkswagen Drain Plug Wrench 64
Wheel Lug Socket Kit 14
Wire Brushes 63
Wire Stripper & Crimper 32
Wood Handle Screw Drivers 46
Wrenches
- Adjustable 44
- Box 35, 36, 38
- Combination 34, 38, 39
- Distributor 40
- Flare Nut 33, 37
- Half Moon 35
- Hex Key 45
- Ignition 33, 35, 38
- Lever Jaw 45
- Metric 33, 34, 39
- Modulator 45
- Open End 33, 37, 38
- Pipe 44
- Ratcheting Box 45
- Reversible Ratchet 4, 7, 12, 17, 20
- Rim 64
- Sets 37, 38, 39
- Socket 5, 8, 9, 13, 14, 15, 21
- Spanner, Adjustable 44
- Stillson 44
- Tappet 33, 37
- Torque 80, 81

Quick-finder Index

Body and Fender Tools 71, 72
Brake Service Tools 65
Chests, Tool 26, 27, 28
Chisels 56-58
Feeler Gauges 42, 43
Files 59
Hammers 70, 71
High Performance Tool Sets 86
Ignition Tools 6, 38, 40, 41
Master Tool Sets 22, 24, 25
Piston Service Tools 67
Pliers 29-32
Pullers 73-77
Punches 56, 57, 58
Ratchets and Ratchet Adapters 4, 5, 7, 8, 12, 13, 17, 18, 20
Screw Drivers 46-50
Sets, Socket Wrench 6, 10, 11, 14, 15, 16, 19, 21
Small Engine Tools 84, 85
Tire and Lube Tools 63, 64
Valve Service Tools 69
Wrenches
- Adjustable 44
- Box 35, 36, 38
- Combination 34, 38, 39
- Metric 34, 39
- Open-End 33, 37, 38
- Pipe 44
- Socket 5, 8, 9, 13, 14, 15, 16, 21

Tappet 33, 37
Torque 80, 81

Blackhawk™ HAND TOOLS



MIDGET DRIVE TOOLS

1/4" Square Drive

These midget sockets and attachments are ideal for ignition systems and electronic jobs. They are as finely made as a swiss watch yet sturdy enough to stand up to any job expected of a 1/4" drive tool.

REVERSIBLE RATCHET

This triple plated, positive grip ratchet is designed for versatility and strength. Fully enclosed ratchet has 45 tooth gear that allows assembling of parts in a minimum amount of space.

Number		Length	Weight
GW-9945	**45 Tooth**	5"	4 oz.
GW-9945R	**45 Tooth** Ratchet Renewal Kit		
GW-9998R	**60 Tooth** Ratchet Renewal Kit		

FLEX RATCHET

Patented design 9 tooth pawl engages 20% of the 45 — tooth ratchet to give stronger locking action in the direction of force. Yet, disengages fast for a free-swing ratcheting return. Short handle swing ideal for ignition and tight working areas. Rust resistant, triple plated chrome finish. Precision made of special steel.

Number		Length	Weight
GW-9995	**45 Tooth**	6"	5 oz.

MIDGET FLEX HANDLE

Useful as a spinner. Versatile — functions at any angle to 90°. Ball and spring tension holds drive tang at selected angle.

Number	Length	Weight
GW-9749	6"	3 1/2 oz.

MIDGET EXTENSION

Increase work range of tools by getting into those hard-to-get-at places.

Number	Length	Weight
GW-9897	3"	2 oz.
GW-9899	6"	3 oz.

MIDGET SLIDE TEE HANDLE

A fine basic tool. Combines with extensions.

Number	Length	Wgt.
GW-9649	4 1/2"	3 oz.

MIDGET SPINNER HANDLE

Use as a Spinner Handle. Has a 1/4" Drive End inserted in Handle so it can be used as an Extension Bar. Shank is 3" long.

Number	Length	Wgt.
GW-9550	6"	3 oz.

MIDGET FLEXIBLE SPINNER

This amazing tool works easily around obstructions.

Number	Length	Wgt.
GW-9545	6 3/4"	3 oz.

MIDGET FLEXIBLE EXTENSION

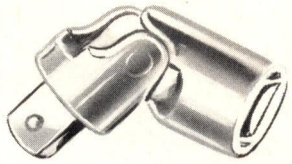
Combines a flexible shaft with regular 1/4" handles.

Number	Length	Wgt.
GW-9548	4"	2 oz.

¼″ DRIVE UNIVERSAL JOINT

A proven basic tool for special hook-ups and attaches to ¼″ sq. drive handles to build tools for work at almost any angle.

Number	Length	Weight
GW-9578	1 ¼″	2 oz.



GW-9578

CHEVROLET DISTRIBUTOR SOCKET

Handy, pronged Socket removes slotted nut in 1953 and later Chevrolet distributor mounts.

Number	Length	Wgt.
GW-9554	1″	1 oz.

GW-9554

6-POINT SOCKETS

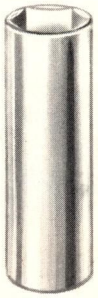
Number	Size	U.S.S. Bolt Size	Hex Head Cap Screw	S.A.E. Std. Screw & Nut	Wgt.
GW-1606	3/16″	#2—.086			2 oz.
GW-1607	7/32″				2 oz.
GW-1608	¼″	#4—.112			2 oz.
GW-1609	9/32″				2 oz.
GW-1610	5/16″	⅛″	⅛″		2 oz.
GW-1611	11/32″				2 oz.
GW-1612	⅜″	3/16″	3/16″		3 oz.
GW-1614	7/16″		¼″	¼″	3 oz.
GW-1616	½″				3 oz.

GW-1606 to GW-1616

¼″-DRIVE 6-POINT EXTRA DEEP SOCKETS

These midget ¼″-drive deep sockets are designed to work quickly and efficiently at jobs too small for tools in larger drive sizes. Accurately machined, heat treated, triple plated chrome finished for maximum durability.

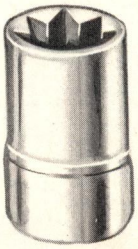
Number	Size	Length	Weight
GW-1508	¼″	2″	1 oz.
GW-1509	9/32″	2″	1 oz.
GW-1510	5/16″	2″	1 oz.
GW-1511	11/32″	2″	2 oz.
GW-1512	⅜″	2″	2 oz.
GW-1514	7/16″	2″	2 oz.



GW-1508 to GW-1514

8-POINT SOCKETS

Number	Size	U.S.S. Bolt Size	U.S.S. or Amer. Std. Set Screw	Wgt.
GW-1208	¼″	#4—.112	¼″	3 oz.
GW-1210	5/16″	⅛″	5/16″	3 oz.
GW-1212	⅜″	3/16″	⅜″	4 oz.



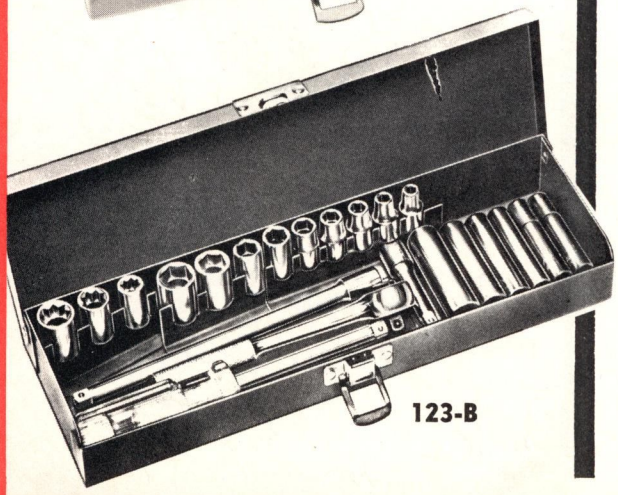
GW-1208 to GW-1212

Blackhawk™ HAND TOOLS

107-B

111-B

116-B



123-B

1/4"-DRIVE DEEP SOCKET SET

The Deep Single Hex Sockets provide necessary clearance to reach over protruding objects. Its thin, straight walls fit in limited spaces.

GW-1508	1/4"	**GW-1511**	11/32"
GW-1509	9/32"	**GW-1512**	3/8"
GW-1510	5/16"	**GW-1514**	7/16"
13253	Metal Tray (3 1/4" x 2 1/4")		

Set No. 107-B 7-Piece Set

11 PIECE — 1/4"-DRIVE SET

A Basic 1/4"-Drive Set with the basic tools for a good foundation on which to build a complete 1/4"-Drive Set.

6-POINT SOCKETS

GW-1608	1/4"	**GW-1611**	11/32"
GW-1609	9/32"	**GW-1612**	3/8"
GW-1610	5/16"	**GW-1614**	7/16"
GW-9749	6" Flex Handle		

8-POINT SOCKETS

GW-1208 1/4" **GW-1210** 5/16" **GW-1212** 3/8"

13265 Metal Box (6 13/16 x 2 5/16 x 1 1/8")

Set No. 111-B 11-Piece Set

16 PIECE — 1/4"-DRIVE SET

The tools are extremely useful to mechanics in adjusting distributors, carburetors, generators — wherever fine work is done.

6-POINT SOCKETS

GW-1606	3/16"	**GW-1611**	11/32"
GW-1607	7/32"	**GW-1612**	3/8"
GW-1608	1/4"	**GW-1614**	7/16"
GW-1609	9/32"	**GW-1616**	1/2"
GW-1610	5/16"		

8-POINT SOCKETS

GW-1208	1/4"	**30560**	Metal Box
GW-1210	5/16"		(6 13/16 x 2 5/16 x 1 1/8")
GW-9899	6" Socket Extension		
GW-9897	2" Socket Extension		
GW-9945	Reversible Ratchet		
GW-9749	6" Flex Handle		

Set No. 116-B 16-Piece Set

23 PIECE — 1/4"-DRIVE SET

The tools in this set are indispensable for ignition systems and are ideal for electronic jobs.

6-POINT SOCKETS

GW-1606	3/16"	**GW-1611**	11/32"
GW-1607	7/32"	**GW-1612**	3/8"
GW-1608	1/4"	**GW-1614**	7/16"
GW-1609	9/32"	**GW-1616**	1/2"
GW-1610	5/16"		

6-POINT EXTRA DEEP SOCKETS

GW-1508	1/4"	**GW-1511**	11/32"
GW-1509	9/32"	**GW-1512**	3/8"
GW-1510	5/16"	**GW-1514**	7/16"

8-POINT SOCKETS

GW-1208 1/4" **GW-1210** 5/16" **GW-1212** 3/8"

GW-9899	6" Socket Extension		
GW-9897	2" Socket Extension	**13267**	Metal Box
GW-9945	Reversible Ratchet		(10 x 3 x 1 1/2")
GW-9550	Amber Handle Spinner		

Set No. 123-B 23-Piece Set

The inaccessibility of many parts in modern engines demands Tools of reduced size. This modern 3/8" Drive Line is completely streamlined to get you into those tight corners.

REVERSIBLE RATCHET

A close acting, positive grip ratchet. Made of alloy steel — forged head fully enclosed 45 tooth mechanism.

Number		Length	Wgt.
34945	**45 Tooth**	7½"	10 oz.

34945R **45 Tooth** Ratchet Renewal Kit
34999R **60 Tooth** Ratchet Renewal Kit

FLEX HEAD RATCHET

This sensational wrench is just the thing for those hard to reach places. The hinge joint at the ratchet head allows a 120° swing in the handle making work around manifolds, air cleaners, and generators easy when removing and installing spark plugs. Standard 3/8"-Drive No. 34999R Repair Kit fits 60 tooth ratchet and 34945R fits 45 tooth ratchet.

Number		Drive	Length	Weight
34935	**45 Tooth**	3/8"	11"	¾ lb.

GYRO FLEX RATCHET

This amazing new ratchet will allow you to reach the most inaccessible places in automotive work. Constructed of alloy steel, this tool has a precision engineered offset handle, which combined with a flex head, allows an unlimited number of positions.

Number	Drive	Length	Weight
34947	3/8"	10½"	¾ Lb.

SPEEDER

Nothing takes the place of a Speeder for turning down nuts in a hurry. By combining Flex Sockets with it, many awkward jobs can be completed.

Number	Length	Wgt.
34982	16"	12 oz.

EXTENSIONS

A wide selection of lengths is given to afford endless combinations with the Ratchets and Flex Handles.

34989	1¾"	2 oz.	**34984**	11"	6 oz.
34988	3"	3 oz.	**34983**	19"	8 oz.
34987	6"	4 oz.			

IMPACT EXTENSIONS

34979	3"	1 oz.	**34980**	6"	2 oz.

GRIP HANDLE

For fast preliminary tightening, this Grip Handle is a must for every mechanic. Has a colored plastic handle.

Number	Weight	Length
34976	2 oz.	5½"

FLEX HANDLE

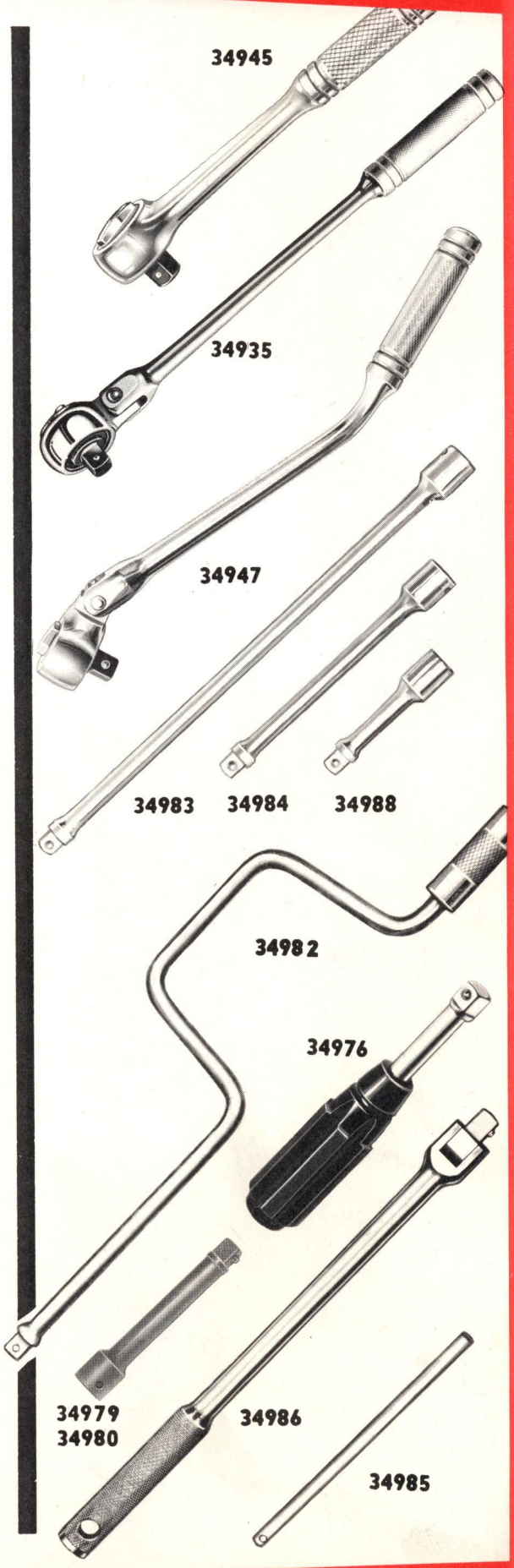
Note the knurled grip and perfect balance. A widely used tool in any kit is the Flex Handle.

34986	10"	½ lb.

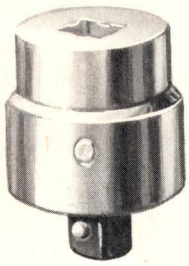
CROSS BAR

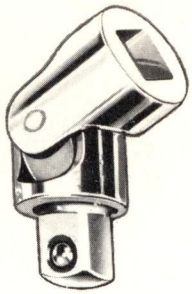
A vital part of your Flex Handle, especially tempered to produce great strength.

34985	6"	3 oz.

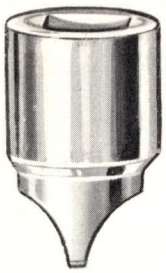


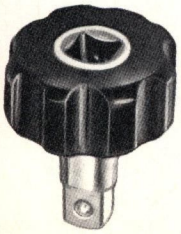
Blackhawk™ HAND TOOLS

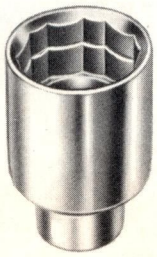

34967


34993

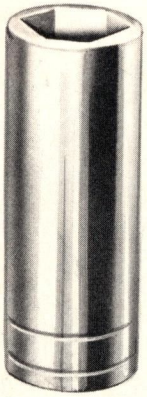
GW-9972
34963
34966

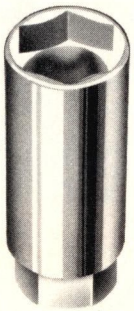

34991

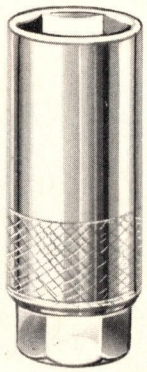

34978


30634S

30008 to 30620


HW-1512 to HW-1528


HW-1520S


HW-1526S

HW-1210 to HW-1214

RATCHET ADAPTER

Swiftly converts flex handle, torque wrench or any drive part into a ratcheting tool with reversible action.

Part No.	Length	Wgt.
34967	2"	6 oz.

UNIVERSAL JOINT

The joint is held at any desired angle by an inner spring. The compact and short-coupled universal joint will reach into the tightest corners.

34993		3 oz.

ADAPTERS

Number	Female Male	Wgt.
GW-9972	1/4" to 3/8" Inc.	2 oz.
34963	3/8" to 1/4" Red.	4 oz.
34966	3/8" to 1/2" Inc.	4 oz.

DRAG LINK SOCKET

The screw driver type Socket for slotted nuts.

Number	Size	Wgt.
34991	11/16" wide	3 oz.

RATCHET SPINNER

This precision designed ratchet attachment fits all 3/8" drive tools, allowing rapid run up of nuts, bolts and spark plugs. Custom designed plastic finger grip is oil resistant. Extension is alloy steel, triple plated (copper, nickel, chrome) for long life.

Number	Size	Length	Weight
34978	3/8" Dr.	1 13/16"	2 oz.

TWO IN ONE SOCKET

Special 1" and 1 1/16" double broached socket for Stop Light and Oil Pressure Light switches.

Part No.	Drive	Weight
30634S	3/8"	5 oz.

6-POINT SOCKETS

Part No.	Size Opening	Wgt.	Part No.	Size Opening	Wgt.
30008	1/4	1 oz.	30616	1/2"	2 oz.
30010	5/16	2 oz.	30618	9/16"	2 oz.
30612	3/8"	1 oz.	30620	5/8"	2 oz.
30614	7/16"	2 oz.			

EXTRA DEEP 6-POINT SOCKETS

Part No.	Size Opening	Wgt.	Part No.	Size Opening	Wgt.
HW-1512	3/8"	3 oz.	HW-1520	5/8"	4 oz.
HW-1514	7/16"	3 oz.	HW-1522	11/16"	4 oz.
HW-1516	1/2"	3 oz.	HW-1524	3/4"	4 oz.
HW-1518	9/16"	4 oz.	HW-1526	13/16"	4 oz.
			HW-1528	7/8"	4 oz.

RUBBER LINED EXTRA DEEP 6-POINT SOCKET

No.	Opening	Wgt.
HW-1520S	5/8"	5 oz.
HW-1526S	13/16"	5 oz.

8-POINT SOCKETS

No.	Opening	Wgt.
HW-1210	5/16"	1 oz.
HW-1212	3/8"	1 oz.
HW-1214	7/16"	2 oz.

12-POINT SOCKETS

30010A	5/16"	30018	9/16"	30024	3/4"
30012	3/8"	30020	5/8"	30026	13/16"
30014	7/16"	30022	11/16"	30028	7/8"
30016	1/2"				

12-POINT EXTRA DEEP SOCKETS

30414	7/16"	30420	5/8"	30426	13/16"
30416	1/2"	30422	11/16"	30428	7/8"
30418	9/16"	30424	3/4"		

6-POINT METRIC SOCKETS

(6 mm to 19 mm) These 3/8" drive sockets are made of alloy steel and are thin walled to permit easy access to bolts and nuts. Precision broached to assure accurate fit. A must for later model foreign cars. Triple plated chrome finish.

Part No.	Size, MM.	Wgt.	Part No.	Size, MM.	Wgt.
32006M	6	3/4 oz.	32015M	15	2 oz.
32007M	7	3/4 oz.	32016M	16	2 oz.
32008M	8	1 oz.	32017M	17	2 oz.
32009M	9	1 oz.	32018M	18	2 oz.
32010M	10	1 oz.	32019M	19	2 oz.
32011M	11	1 oz.	32020M	20	2 oz.
32012M	12	1 oz.	32021M	21	2 oz.
32013M	13	2 oz.	32022M	22	2 oz.
32014M	14	2 oz.			

DEEP FLEX SOCKETS

New design permits direct application with your standard 3/8" drive ratchet. Spark plug socket is lined with a neoprene insert to grip spark plug firmly for easier installation or removal. (Non replaceable)

Part No.	Opening	Part No.		Opening	Wgt.
30314	7/16"	30320-S	spark plug socket	5/8"	6 oz.
30316	1/2"	30326	spark plug socket	13/16"	6 oz.
30318	9/16"				

6-POINT FLEX SOCKETS

30212	3/8"	30218	9/16"	30222	11/16"
30214	7/16"	30220	5/8"	30224	3/4"
30216	1/2"				

PHILLIPS SCREW DRIVER BITS

A popular tool for automotive body work and for many industrial applications also. Available in three sizes.

Part No.	Bit Size	Wgt.
HW-9451	No. 2	3 oz.
HW-9452	No. 3	3 oz.
HW-9453	No. 4	3 oz.

3/8"-DRIVE ALLEN WRENCH BIT

Hex heads are accurate and fit the screw precisely. Can be used on all 3/8" Drive Handles. Length 2 1/16". Replaceable bits available in all sizes.

HW-9449	3/16"	HW-9449-1	3 oz.
HW-9448	7/32"	HW-9448-1	3 oz.
HW-9447	1/4"	HW-9447-1	3 oz.
HW-9446	5/16"	HW-9446-1	3 oz.
HW-9445	3/8"	HW-9445-1	3 oz.

3/8"-DRIVE SCREW DRIVER BITS

These bits are designed for slotted head screws. Heat treated and accurately machined for precise fit.

Part No.	Blade Size	Length	Wgt.
HW-9505	.035" by 1/4" Blade	3 1/4"	3 oz.
HW-9506	.040" by 3/8" Blade	3 1/4"	3 oz.

CLUTCH HEAD SCREW DRIVER BIT

HW-9457	19/64"	3 oz.

3/8" DRIVE IMPACT SOCKETS

Made from special Alloy Steel and with black finish, these tough Power Sockets are designed to stand up under punishing use.

Part No.	Opening	Part No.	Opening	Part No.	Opening
30712	3/8" 6 Pt.	30718	9/16" 6 Pt.	30724	3/4" 6 Pt.
30714	7/16" 6 Pt.	30720	5/8" 6 Pt.		
30716	1/2" 6 Pt.	30722	11/16" 6 Pt.		

3/8" DRIVE EXTRA DEEP IMPACT SOCKETS

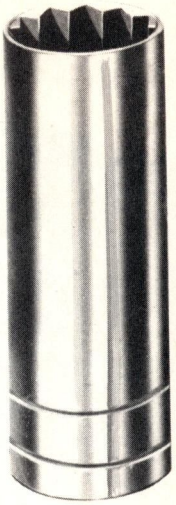
30512	3/8" 6 Pt.	30516	1/2" 6 Pt.	30520	5/8" 6 Pt.
30514	7/16" 6 Pt.	30518	9/16" 6 Pt.		

3/8" DRIVE IMPACT UNIVERSAL JOINT

Provides flexibility when working in tight areas. Built-in strength necessary for its rugged application.

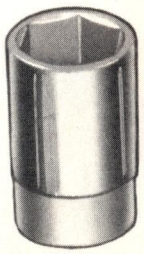
Part No.	Wgt.
34995	3 1/2" oz.

30010A to 30028

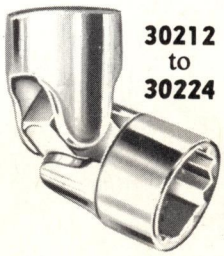


30414 to 30428

32006M 32007M

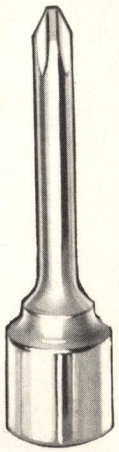


32008M to 32022M

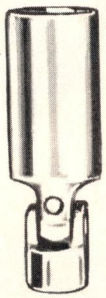


30212 to 30224

HW-9449 to HW-9445

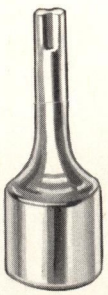


HW-9451 to HW-9453



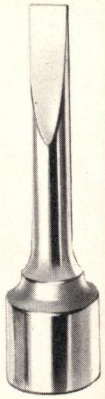
30314 to 30326

30512 to 30520

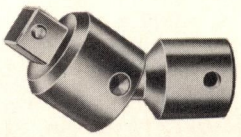


HW-9457

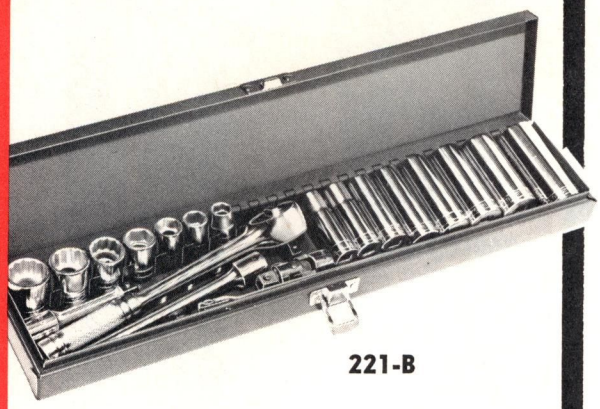
30712 to 30724



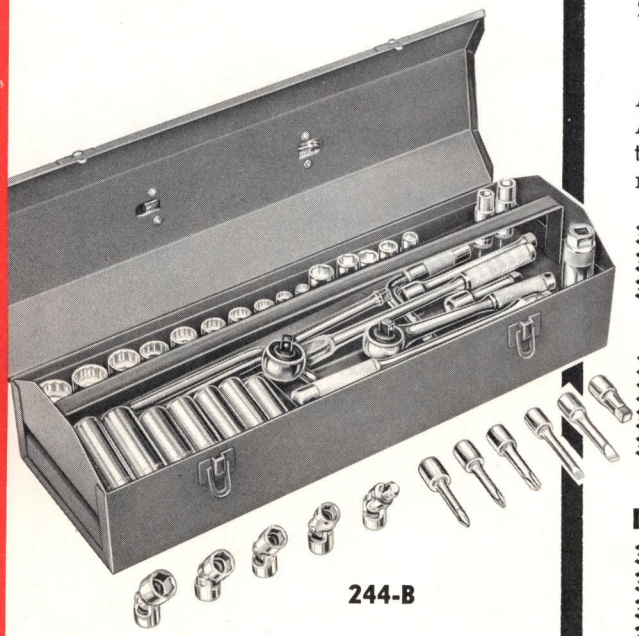
HW-9505 HW-9506



34995



221-B



244-B

209-B

21 PIECE — 3/8"-DRIVE SET

Fastest selling and most demanded because of its completeness with both regular and extra deep sockets.

6-POINT SOCKETS

30612	3/8"	**30616**	1/2"
30614	7/16"	**30618**	9/16"

6-POINT EXTRA DEEP SOCKETS

HW-1512	3/8"	**HW-1518**	9/16"	**HW-1524**	3/4"
HW-1514	7/16"	**HW-1520**	5/8"	**HW-1526**	13/16"
HW-1516	1/2"	**HW-1522**	11/16"		

12-POINT SOCKETS

30020	5/8"	**30022**	11/16"	**30024**	3/4"

34988	3" Socket Extension	**34986**	10" Flex Handle
34987	6" Socket Extension	**34993**	Universal Joint
34945	Reversible Ratchet	**30562**	Metal Box (14 3/4 x 3 1/4 x 1 1/2")

Set No. 221-B 21-Piece Set

44 PIECE — 3/8"-DRIVE SET

A Deluxe Set with a full range of Sockets and Attachments. Set contains 44 of the most necessary tools for general work complete in a streamlined metal box.

6-POINT SOCKETS

30612	3/8"	**30618**	9/16"	**HW-1512**	3/8"
30614	7/16"	**30620**	5/8"	**HW-1514**	7/16"
30616	1/2"			**HW-1516**	1/2"

12-POINT SOCKETS

30010A	5/16"	**30018**	9/16"	**30026**	13/16"
30012	3/8"	**30020**	5/8"	**30028**	7/8"
30014	7/16"	**30022**	11/16"		
30016	1/2"	**30024**	3/4"		

12-POINT DEEP SOCKETS

30418	9/16"
30420	5/8"
30422	11/16"
30424	3/4"
30426	13/16"
30428	7/8"

FLEX SOCKETS

30214	7/16"
30216	1/2"
30218	9/16"
30220	5/8"

34993	Universal Joint
HW-1526S	Spark Plug Socket
34945	Reversible Ratchet
34988	3" Socket Extension
34987	6" Socket Extension
34984	11" Socket Extension
34989	1 3/4" Socket Extension
34982	19" Speeder
34997	Flex Handle Ratchet
34986	10" Flex Handle
HW-9451	Phillips Sc. Dr. Bits #2
HW-9452	Phillips Sc. Dr. Bits #3
HW-9453	Phillips Sc. Dr. Bits #4
HW-9505	Sc. Dr. Bits 1/4" Bl.
HW-9506	Sc. Dr. Bits 3/8" Bl.
30558-H	Box (19 x 6 x 4 1/4")

Set No. 244-B 44-Piece Set

9 PIECE — 3/8"-DRIVE DEEP SOCKET SET

The Deep Single Hex Sockets enable you to work in close places and provide the necessary clearance to hard-to-reach areas.

6-POINT EXTRA DEEP SOCKETS

HW-1514	7/16"	**HW-1520**	5/8"	**HW-1526**	13/16"
HW-1516	1/2"	**HW-1522**	11/16"	**HW-1528**	7/8"
HW-1518	9/16"	**HW-1524**	3/4"		

30750 Metal Box (7 x 3 x 1 1/4")

Set No. 209-B 9-Piece Set

13 PIECE — 3/8"-DRIVE SET

A compact set with a selected range of Regular 6 Point and 12 Point Sockets packaged in a metal box.

6-POINT SOCKETS

30612	3/8"	30616	1/2"
30614	7/16"	30618	9/16"

12-POINT SOCKETS

30020	5/8"	30024	3/4"	30028	7/8"
30022	11/16"	30026	13/16"		

34945	Reversible Ratchet
34986	10" Flex Handle
34987	6" Socket Extension
30561	Metal Box (10 x 3 1/4 x 1 1/2")

Set No. 213-B 13-Piece Set

213-B

8 PIECE — 3/8"-DRIVE FLEX SOCKET SET

A complete set of Flex Sockets that are indispensable when working in restricted areas.

6-POINT FLEX SOCKETS

30212	3/8"	30220	5/8"
30214	7/16"	30222	11/16"
30216	1/2"	30224	3/4"
30218	9/16"		

13657	Metal Box (6 13/16 x 2 5/16 x 1 1/8")

Set No. 208-B 8-Piece Set

208-B

14 PIECE — 3/8"-DRIVE METRIC SET

A Quality Built Metric Set that is a must for mechanics working on foreign cars.

6-POINT SOCKETS

Number	M.M. Size	Number	M.M. Size
32009M	9	32014M	14
32010M	10	32015M	15
32011M	11	32017M	17
32012M	12	32019M	19
32013M	13		

HW-1526S	Spark Plug Socket
34988	3" Extension
34987	6" Extension
34945	Fully Enclosed Ratchet
13658	Sturdy Metal Box (10 x 3 1/4 x 1 1/2")

Set No. 214-B 14-Piece Set

214-B

10 PIECE — 3/8"-DRIVE METRIC TRAY SET

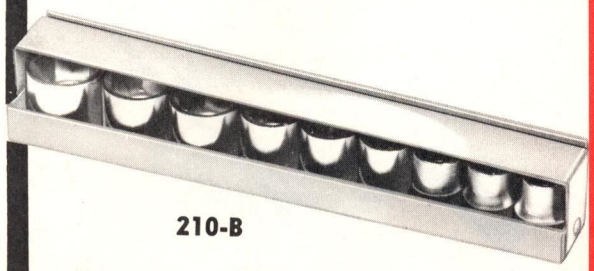
Unique 10 Piece Metric Socket Tray Set with Flip Lock Tray Feature.

6-POINT SOCKETS

Number	M.M. Size	Number	M.M. Size
32009M	9	32014M	14
32010M	10	32015M	15
32011M	11	32017M	17
32012M	12	32019M	19
32013M	13		

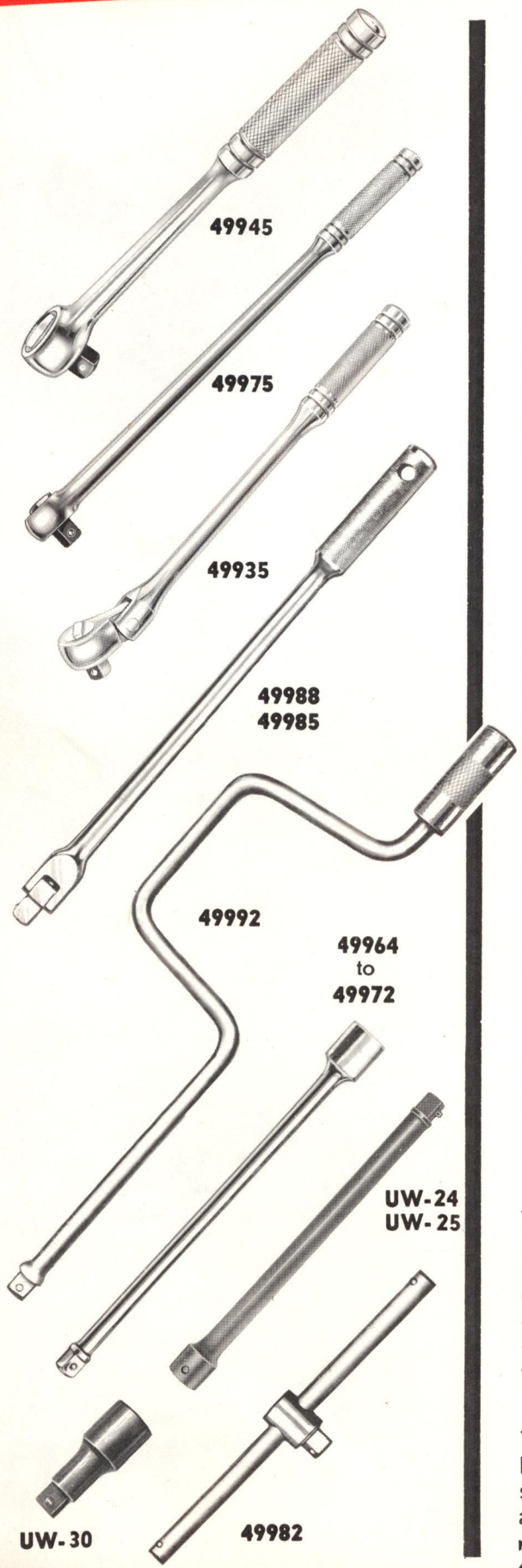
13330 Metal Tray (7 3/8 x 1 x 1 1/2")

Set No. 210-B 10-Piece Set



210-B

Blackhawk™ HAND TOOLS



REVERSIBLE RATCHET

New patented design. Five years of engineering and development brings the toughest, most rugged ratchet yet designed. Check these features:

- 45 Tooth action — permits ratcheting in restricted areas.
- 9 Tooth pawl — designed for compression engagement. Pressure is applied directly to ratchet head rather than individual teeth.
- Simplicity — working unit can be replaced in a jiffy for instant ratchet renewal when mechanism becomes worn out.

Number		Length	Wgt.
49945	**45 Tooth**	10"	1 lb.
49975	**45 Tooth**	15"	1 lb. 4 oz.
49999R	**60 Tooth**	Ratchet Renewal Kit	
49945R	**45 Tooth**	Ratchet Renewal Kit	

½"-DRIVE FLEX RATCHET

This ½"-Drive Flex-Ratchet has the famous Blackhawk 9 Tooth Pawl and 45 Tooth fully enclosed frame for positive wedge action. This tool gives extra leverage and flexibility for those hard-to-reach stubborn nuts and bolts. The hinged joint provides a full 180° swing of the wrench head. Standard ½"-Drive No. 49999R Repair Kit fits 60-Tooth ratchet, 49945R Kit fits 45-Tooth ratchet.

Part No.		Drive	Length	Weight
49935	**45 Tooth**	½"	12 ¾"	19 oz.

FLEX HANDLES

The drive end on these newly designed knurled grip Flex Handles can be set in many different positions, thereby enabling work to be performed in inaccessible places.

	Length	Wgt.
49988	18"	2 lbs.
49985	15"	1 lb. 11 oz.

SPEEDER

The original speed-up Tool. Nothing takes the place of a Speeder for quick work.

Number	Length	Wgt.
49992	18"	1 lb. 12 oz.

EXTENSIONS

These sizes, alone or in combination, extend your reach an extra 2" to 36" in steps of 2" as you please.

Number	Length	Wgt.	Number		Length	Wgt.
49964	1 15/16"	4 oz.	**UW-24**	Impact Ext.	5"	4 oz.
49966	5"	10 oz.	**UW-25**	Impact Ext.	10"	6 oz.
49990	10"	16 oz.	**UW-30**	Impact Ext.	2⅝"	2 oz.
49972	19"	27 oz.				

SLIDE TEE HANDLE

This Slide Tee Handle can be used as an offset handle by moving head to either end of bar. Head is kept securely in any position by a ball and tension spring arrangement in head.

Number	Length	Wgt.
49982	9"	1 lb.

RATCHET ADAPTER

This versatile Blackhawk Ratchet Adapter functions smoothly and efficiently. Its ingenious design offers the remarkable facility of swiftly converting a flex handle, torque wrench or any drive part into an unusually effective ratcheting tool, with reversible action.

Number	Length	Wgt.
49973	2⅛"	10 oz.

49973

DRAG LINK SOCKETS

A sturdy screw driver type Socket with bit for drag links, drain plugs, slotted nuts and screws. Will fit any standard ½" square drive tool.

Number	Size	Wgt.
49979	15/16" Wide	3 oz.

49979

ADAPTERS

An invaluable addition to any mechanic's tool set for the interchange of different drive handles.

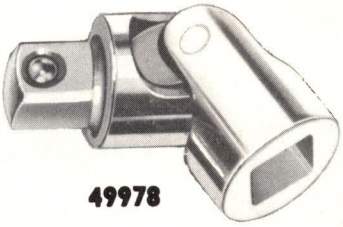
Number	Sizes Female Male	Wgt.
34965	½" to ⅜" Red.	3 oz.
69992	½" to ¾" Inc.	6 oz.

34965
69992

UNIVERSAL JOINT

Compact, sturdy and easy working. A Universal Joint designed for difficult corners.

Number	Length	Wgt.
49978	2 9/16"	10 oz.

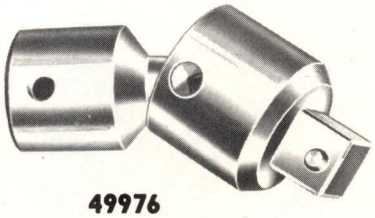


49978

IMPACT UNIVERSAL JOINT

This ½"-Drive Impact Universal Joint will provide flexibility when working in tight restricted areas. The special "Ball Type Joint" gives this Universal Joint the added strength necessary for its rugged application.

Part No.	Size	Length	Weight
49976	½"	2 13/16"	3 oz.



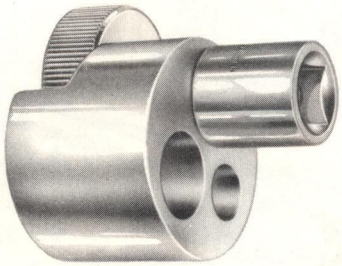
49976

ECCENTRIC STUD EXTRACTOR

Extractor will remove or install ¼" to ¾" stud sizes. Uniquely constructed to permit gripping wheel to lay flush on flat surfaces to engage stud at lowest point if required without damage to stud threads. Drive socket extends through entire housing to prevent binding. Consists of 3 replaceable and easy to disassemble parts.

Number	Wgt.
49980	8 oz.

49980-1 Replacement Cam for 49980



49980

½" Square Drive Sockets

Blackhawk™ HAND TOOLS

40612 to 40628

42010M to **42014M**

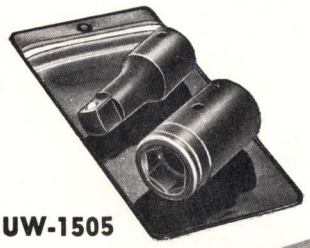
40212 to **40226**

40114 to 40140

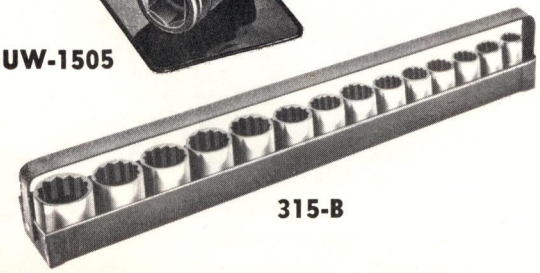
42015M to **42042M**

UW-1500

UW-1612 to UW-1636



UW-1505



315-B

Extra strength thin wall design for work where there's minimum clearance . . . Available in 12, 8 and 6-point design . . . All tools have a mirror chrome finish.

6-POINT SOCKETS

Part No.	Opening	Wgt.	Part No.	Opening	Wgt.
40612	3/8"	1 oz.	40620	5/8"	2 oz.
40614	7/16"	1 oz.	40622	11/16"	2 oz.
40616	1/2"	1 oz.	40624	3/4"	2 oz.
40618	9/16"	2 oz.	40628	7/8"	3 oz.

6-POINT METRIC SOCKETS

Part No.	Size MM	Wgt.	Part No.	Size MM	Wgt.
42010M	10 MM	.11 lbs.	42013M	13 MM	.12 lbs.
42011M	11 MM	.11 lbs.	42014M	14 MM	.12 lbs.
42012M	12 MM	.11 lbs.			

8-POINT SOCKETS

40212	3/8"	2 oz.	40220	5/8"	3 oz.
40214	7/16"	3 oz.	40222	11/16"	3 oz.
40216	1/2"	3 oz.	40224	3/4"	4 oz.
40218	9/16"	3 oz.	40226	13/16"	4 oz.

12-POINT SOCKETS

40114	7/16"	1 oz.	40125	25/32"	2 oz.
40116	1/2"	2 oz.	40126	13/16"	3 oz.
40118	9/16"	2 oz.	40128	7/8"	3 oz.
40119	19/32"	2 oz.	40130	15/16"	4 oz.
40120	5/8"	2 oz.	40132	1"	4 oz.
40121	21/32"	2 oz.	40134	1 1/16"	4 oz.
40122	11/16"	2 oz.	40136	1 1/8"	6 oz.
40124	3/4"	2 oz.	40140	1 1/4"	7 oz.

12-POINT METRIC SOCKETS

Part No.	Size MM	Wgt.	Part No.	Size MM	Wgt.
42015M	15 MM	.13 lbs.	42024M	24 MM	.32 lbs.
42016M	16 MM	.13 lbs.	42025M	25 MM	.33 lbs.
42017M	17 MM	.17 lbs.	42026M	26 MM	.36 lbs.
42018M	18 MM	.17 lbs.	42027M	27 MM	.40 lbs.
42019M	19 MM	.20 lbs.	42028M	28 MM	.48 lbs.
42020M	20 MM	.21 lbs.	42030M	30 MM	.53 lbs.
42021M	21 MM	.24 lbs.	42032M	32 MM	.63 lbs.
42022M	22 MM	.26 lbs.	42036M	36 MM	.68 lbs.
42023M	23 MM	.29 lbs.	42042M	42 MM	.71 lbs.

6-POINT (IMPACT) SOCKETS

Made from special Alloy Steel and with black, Parkerized finish, these tough Power Sockets are designed to stand up under punishing use with Power and Impact Wrenches.

UW-1500 3/4" x 13/16" (Double End) 2 oz.

UW-1612	3/8"	2 oz.	UW-1626	13/16"	3 oz.
UW-1614	7/16"	2 oz.	UW-1628	7/8"	3 oz.
UW-1616	1/2"	2 oz.	UW-1630	15/16"	5 oz.
UW-1618	9/16"	2 oz.	UW-1632	1"	6 oz.
UW-1620	5/8"	2 oz.	UW-1634	1 1/16"	9 oz.
UW-1622	11/16"	3 oz.	UW-1636	1 1/8"	10 oz.
UW-1624	3/4"	3 oz.			

WHEEL IMPACT LUG SOCKET KIT

All the tools necessary for removing and assembling wheel lugs with an impact gun. Kit includes ½" Drive Impact Extension — 2 5/8" long; 3/4" x 13/16" double end ½" Drive Impact Socket and plastic kit.

UW-1505 2½ lbs.

15 PIECE SOCKET SET

This is a complete, compact, low priced Socket Set furnished in a metal carrying tray.

12-POINT SOCKETS

40114	7/16"	40122	11/16"	40130	15/16"
40116	1/2"	40124	3/4"	40132	1"
40118	9/16"	40125	25/32"	40136	1 1/8"
40119	19/32"	40126	13/16"	40140	1 1/4"
40120	5/8"	40128	7/8"		

15277 Metal Tray

315-B 15 Pc. Set 5 lbs.

EXTRA DEEP 6-POINT SOCKETS

These sockets are made from Special Alloy Steel and heat treated for maximum strength and durability. Thin wall design provides easier access to minimum clearance areas. Triple plated chrome finish.

Part No.	Size	Weight	Part No.	Size	Weight
40416	½"	5 oz.	40426	13/16"	5 oz.
40418	9/16"	5 oz.	40428	⅞"	6 oz.
40420	⅝"	5 oz.	40430	15/16"	7 oz.
40422	11/16"	5 oz.	40432	1"	7 oz.
40424	¾"	5 oz.	40434	1 1/16"	10 oz.

EXTRA DEEP 12-POINT SOCKETS

Part No.	Size	Wgt.	Part No.	Size	Weight
40316	½"	5 oz.	40328	⅞"	6 oz.
40318	9/16"	5 oz.	40330	15/16"	7 oz.
40320	⅝"	5 oz.	40332	1"	7 oz.
40322	11/16"	5 oz.	40334	1 1/16"	10 oz.
40324	¾"	5 oz.	40336	1⅛"	10 oz.
40326	13/16"	5 oz.			

SPARK PLUG SOCKET

This special ½"-Drive Socket is lined with a neoprene insert to grip the Spark Plug Firmly for easier installation or removal.

Part No.	Size Opening	Weight
40326S	13/16"	5 oz.

⅝" SPARK PLUG SOCKET

For Buicks and new 400 and 430 cubic inch high performance engines.

40320S	⅝"	5 oz.

6-POINT DEEP COTTON SPINDLE SOCKET

Specially designed and heat treated Alloy Steel insures long rugged use.

Part No.	Drive	Length	Weight
40436S	½"	6¼"	2 lbs.

EXTRA DEEP 6-POINT IMPACT SOCKETS

Made from Special Alloy Steel, these tough but light weight Power Sockets are designed to stand up under punishing use on Power Tools.

Part No.	Size	Weight	Part No.	Size	Weight
UW-1512	⅜"	4 oz.	UW-1524	¾"	7 oz.
UW-1514	7/16"	4 oz.	UW-1526	13/16"	7 oz.
UW-1516	½"	4 oz.	UW-1528	⅞"	9 oz.
UW-1518	9/16"	4 oz.	UW-1530	15/16"	10 oz.
UW-1520	⅝"	4 oz.	UW-1532	1"	11 oz.
UW-1522	11/16"	5 oz.			

9-PIECE DEEP SOCKET SET
Extra Deep 12-Point Sockets

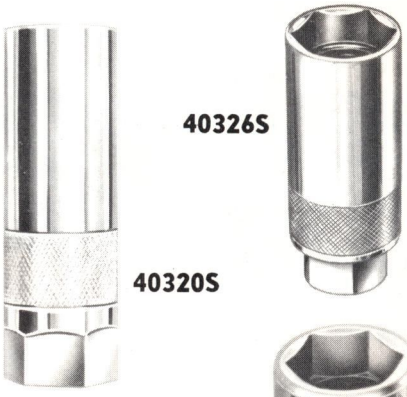
40318	9/16"	40326	13/16"	
40320	⅝"	40328	⅞"	31061 Metal Box
40322	11/16"	40330	15/16"	(9" x 3⅞" x 1½")
40324	¾"	40332	1"	

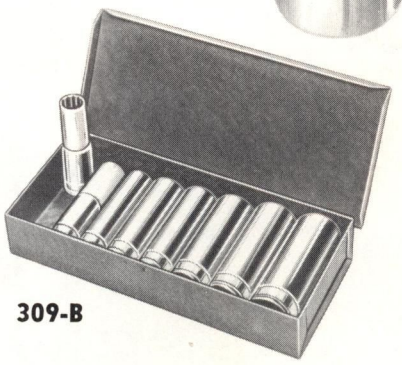
Part No.		Wgt.
309-B	9-Piece Set	4 lbs.

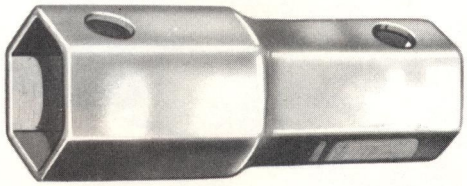
DRAWN SPARK PLUG SOCKETS

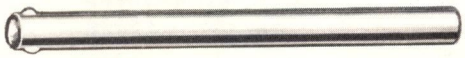
Low cost spark plug Sockets for service station use. Cross Bar with each Socket.

Part No.	Hex. Spark Plug Size	Part No.	
40726	13/16" (Single End)	40720	⅝" and 13/16"
40728	13/16" and ⅞"	40710	Cross Bar, Small

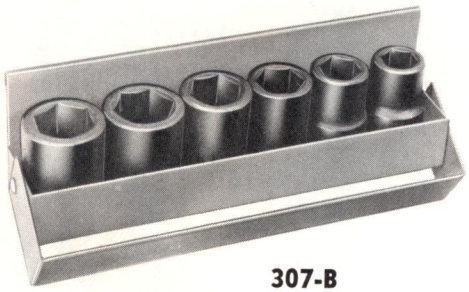




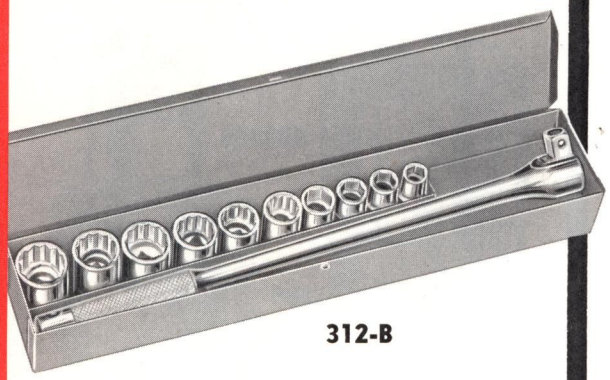




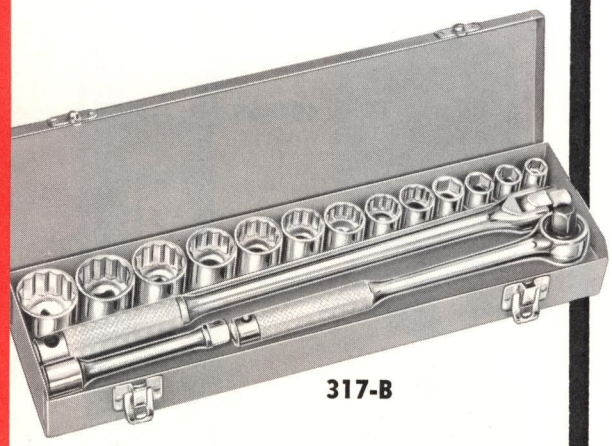
Blackhawk™ HAND TOOLS



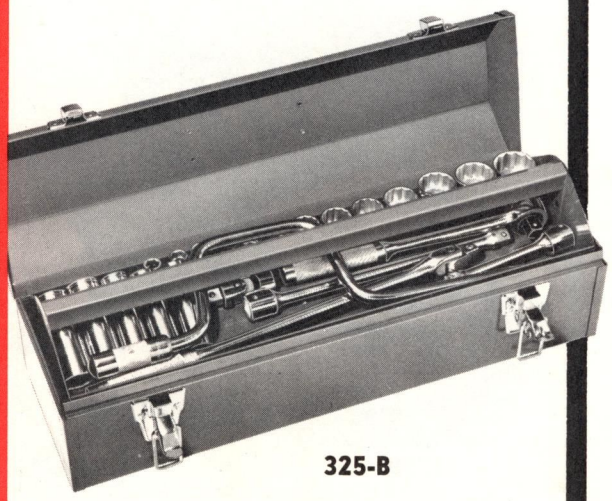
307-B



312-B



317-B



325-B

REGULAR LENGTH
½"-DRIVE 6-POINT IMPACT SOCKET SET

Part No.	Size	Length	Weight
UW-1616	½"	1½"	2 oz.
UW-1618	9/16"	1½"	2 oz.
UW-1620	⅝"	1½"	2 oz.
UW-1622	11/16"	1½"	3 oz.
UW-1624	¾"	1½"	3 oz.
UW-1626	13/16"	1½"	3 oz.

Set No. 307-B 7-Piece Set 13995 TRAY

12 PIECE — ½"-DRIVE SET

A compact Socket Set containing the most useful ½" Drive Tools.

6-POINT SOCKETS

40614	7/16"	**40618**	9/16"
40616	½"	**40620**	⅝"

12-POINT SOCKETS

40122	11/16"	**40126**	13/16"	**40130**	15/16"
40124	¾"	**40128**	⅞"	**40132**	1"

49985 15" Flex Handle
13266 Metal Box (14¾ x 2 11/16 x 1⅝")
Set No. 312-B 12-Piece Set

17 PIECE — ½"-DRIVE SET

Gives a wider coverage with a range of 13 Sockets — Sizes 7/16" thru 1¼". This set is useful to mechanics in all fields.

6-POINT SOCKETS

40614	7/16"	**40618**	9/16"
40616	½"	**40620**	⅝"

12-POINT SOCKETS

40122	11/16"	**40128**	⅞"	**40134**	1 1/16"
40124	¾"	**40130**	15/16"	**40136**	1⅛"
40126	13/16"	**40132**	1"	**40140**	1¼"

49966 5" Socket Extension
49945 10" Reversible Ratchet
49985 15" Flex Handle
13257 Metal Box (15¼ x 4 x 2")
Set No. 317-B 17-Piece Set

25 PIECE — ½"-DRIVE SOCKET SET

This proper selection of tools is a profitable investment for the mechanic who wants a savings of time and more efficient work from his tools.

6-POINT SOCKETS

40614	7/16"	**40618**	9/16"
40616	½"	**40620**	⅝"

12-POINT SOCKETS

40122	11/16"	**40128**	⅞"	**40134**	1 1/16"
40124	¾"	**40130**	15/16"	**40136**	1⅛"
40126	13/16	**40132**	1"	**40140**	1¼"

12-POINT EXTRA DEEP SOCKETS

40320	⅝"	**49966**	5" Socket Extension
40322	11/16"	**49990**	10" Socket Extension
40324	¾"	**49945**	Reversible Ratchet
40326	13/16"	**49985**	15" Flex Handle
40328	⅞"	**49978**	Universal Joint
49992	9" Speeder	**12100**	Metal Box (19 x 6 x 4¼")

Set No. 325-B 25-Piece Set

HEAVY DUTY WRENCHES

3/4" Square Drive

The trend of building Buses, Trucks and even Tractors with streamlined bodies makes for tight places around the giant nuts and bolts which hold them together. Thin walled Heavy Duty Sockets and Heavy Duty Drive Parts are needed just as much on present day heavy duty vehicles as on passenger cars. The complete assortment of tools has been designed for maximum strength with the excess weight being eliminated. Every Tool is Triple Plate, Chrome finish to guard against weather and preserve appearance.

REVERSIBLE RATCHET

A positive-grip ratchet that gives you extra strength for turning tough nuts. Precision engineered, **45 tooth** mechanism permits close acting operation. Head is 2 3/8" in diameter.

Number		Length	Wgt.
69945	**45 Tooth**	20"	4 1/2 lbs.
69945R	**45 Tooth**	Ratchet Renewal Kit	
69999R	**60 Tooth**	Ratchet Renewal Kit	

HEAVY DUTY FLEX HANDLE

For many reasons a Flex Handle is the most widely used Heavy Duty attachment. Because this Tool has better balance, greater strength and the ability to get into tight corners, it will amaze you by its workability.

Number	Length	Wgt.
69998	19"	4 lbs.

HEAVY DUTY SLIDE TEE HANDLE

Its ability to serve as several different tools has always made it a favorite. It combines with extensions and universal joints to make very handy Tools.

Number	Length	Wgt.
69997	18"	3 1/2 lbs.

HEAVY DUTY EXTENSIONS

Used in conjunction with any drive tool, they are indispensable on jobs in out of the way places.

Number	Length	Wgt.
69993	4"	10 oz.
69995	8"	1 lb. 3 oz.
69994	16"	2 lbs.

RATCHET ADAPTOR

Fits between Handle and Socket to make reversible ratchet combination. Also excellent with Tension Indicators. Features 60-tooth ratcheting mechanism and 12-tooth compression engagement.

Part No.	Drive	Length	Weight
69967	3/4"	3 1/8"	2 lbs.

HEAVY DUTY UNIVERSAL JOINT

You cannot work around corners without using a Universal Joint. Permits free action up to 90°.

Number	Length	Wgt.
69978	4"	1 1/2 lbs.

HEAVY DUTY ADAPTERS

Number	Female	Male	Weight
49991	3/4"	1/2"	12 oz.
89993	3/4"	1"	12 oz.

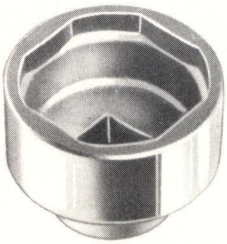
Blackhawk™ HAND TOOLS

60028 to 60072

UW-2424 to UW-2448

UW-2624 to UW-2648

UWP-660



60460 to 60474

60476

12-POINT HEAVY DUTY SOCKETS

Part No.	Size	Part No.	Size	Part No.	Size
60028	7/8"	60042	1 5/16"	60056	1 3/4"
60030	1 5/16"	60044	1 3/8"	60058	1 13/16"
60032	1"	60046	1 7/16"	60060	1 7/8"
60034	1 1/16"	60048	1 1/2"	60064	2"
60036	1 1/8"	60050	1 9/16"	60068	2 1/8"
60038	1 3/16"	60052	1 5/8"	60072	2 1/4"
60040	1 1/4"	60054	1 11/16"		

STANDARD 6-POINT IMPACT SOCKETS

Made from special Alloy Steel these rugged impact sockets will stand up under punishing use.

Part No.	Size	Length	Weight
UW-2424	3/4"	2 1/8"	11 oz.
UW-2426	13/16"	2 1/8"	11 oz.
UW-2428	7/8"	2 1/8"	12 oz.
UW-2430	15/16"	2 1/8"	13 oz.
UW-2432	1"	2 1/8"	14 oz.
UW-2434	1 1/16"	2 1/8"	14 oz.
UW-2436	1 1/8"	2 1/8"	14 oz.
UW-2438	1 3/16"	2 1/4"	1 lb. 1 oz.
UW-2440	1 1/4"	2 1/4"	1 lb. 2 oz.
UW-2442	1 5/16"	2 1/4"	1 lb. 7 oz.
UW-2444	1 3/8"	2 1/2"	1 lb. 9 oz.
UW-2446	1 7/16"	2 1/2"	1 lb. 9 oz.
UW-2448	1 1/2"	2 1/2"	1 lb. 9 oz.

6-POINT DEEP IMPACT SOCKETS

Part No.	Size	Length	Weight
UW-2624	3/4"	3 1/2"	1 lb.
UW-2626	13/16"	3 1/2"	1 lb.
UW-2628	7/8"	3 1/2"	1 lb.
UW-2630	15/16"	3 1/2"	1 lb. 3 oz.
UW-2632	1"	3 1/2"	1 lb. 3 oz.
UW-2634	1 1/16"	3 1/2"	1 lb. 4 oz.
UW-2636	1 1/8"	3 1/2"	1 lb. 8 oz.
UW-2640	1 1/4"	3 1/2"	2 lbs. 5 oz.
UW-2648	1 1/2"	3 1/2"	2 lbs. 5 oz.

BUDD WHEEL SOCKET

New Socket designed for quick application and removal of *Budd type wheels*. Available in 3/4" and 1" drive, each Socket has two openings, 13/16" square and 1 1/2" hex, eliminating the need of two separate sockets.

Number	Drive Size	Weight
UWP- 660	3/4"	2 lbs.

BALL JOINT SUSPENSION SOCKETS

These Special Ball Joint Suspension Sockets will make your work easier and faster in removing and installing the ball joints on Buicks, Oldsmobile F-85, Corvair, Plymouth, Dodge, Chrysler, and Valiants.

Part No.	Description
60460	3/4" Drive Socket with 1 7/8" opening for late model Plymouths and Dodges
60468	3/4" Drive Socket with 2 1/8" opening for late model Chryslers
60470	3/4" Drive Socket with 1 7/8 opening for Buick
60472	3/4" Drive Socket with 2 1/16 opening for Buick
60474	3/4" Drive Socket with 1 5/8" opening for Corvair, Oldsmobile F-85, and Buick Special
60476	3/4" Socket with 1 25/32" opening for Valiant

24-PIECE HEAVY DUTY SOCKET SET

This complete ¾" Square Drive Set is designed for heavy duty work on buses, trucks, tractors, marine engines and equipment, and industrial machinery. Contains 17 sockets ranging from 15/16" to 2" plus all the necessary drive tools to perform the most rugged or exacting work. These tools will enable a mechanic to perform any job requiring extra strength.

12-POINT SOCKETS

60030	15/16"	**60042**	1 5/16"	**60054**	1 11/16"
60032	1"	**60044**	1 3/8"	**60056**	1 3/4"
60034	1 1/16"	**60046**	1 7/16"	**60058**	1 13/16"
60036	1 1/8"	**60048**	1 1/2"	**60060**	1 7/8"
60038	1 3/16"	**60050**	1 9/16"	**60064**	2"
60040	1 1/4"	**60052**	1 5/8"		

DRIVE PARTS

69993	4" Extension	**69945**	19 3/4" Revs. Ratchet
69995	8" Extension	**69998**	19" Flex Handle
69994	16" Extension	**69997**	18" Slide Tee

31231 Metal Box 20 3/8" x 8 3/8" x 5 1/2"

Number		Wgt.
424B	24 Pc. Set	46 1/2 lbs.

424B

14-PIECE HEAVY DUTY SOCKET SET

This is the ideal wrench set for all heavy duty work such as in construction and in assembling and maintaining tractors, mine machinery, industrial and marine equipment, engines and similar big units.

12-POINT SOCKETS

60030	15/16"	**60036**	1 1/8"	**60046**	1 7/16"
60032	1"	**60040**	1 1/4"	**60048**	1 1/2"
60034	1 1/16"	**60044**	1 3/8"	**60052**	1 5/8"

DRIVE PARTS

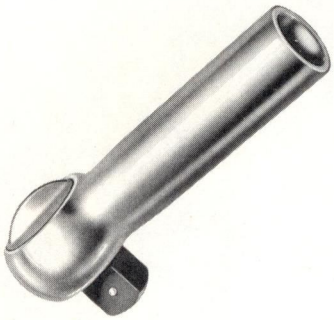
69995	8" Extension	**69945**	Revs. Ratchet
69994	16" Extension	**69998**	Flex Handle

31231 Metal Box 20 3/8" x 8 3/8" x 5 1/2"

Number		Wgt.
414B	14 Pc. Set	22 1/2 lbs.

414B

Blackhawk™ HAND TOOLS

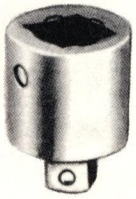


89945

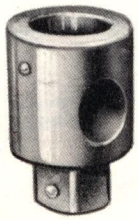
89996
89995

89997

UWP-1460



69990



89998

REVERSIBLE RATCHET

An extra heavy-duty Ratchet possessing the same refinements of smaller Ratchets, and despite its compactness, has brute strength for the toughest jobs. Because of the demand for both a long and short type wrench, the Ratchet is made as a head only and can be used with No. 89997 Handle Bar inserted within the shank. Hole in shank grasps "Lock-On" plunger of Handle Bar.

Number		Length	Wgt.
89945	**45 Tooth**	8"	4 lbs. 7 oz.
89999R	**60 Tooth** Repair Kit for 89999 ratchet		
89945R	**45 Tooth** Repair Kit		

EXTENSIONS

To get the added reach in that close corner, use these Extensions.

Number	Length	Wgt.
89996	7 ½"	3 lbs. 10 oz.
89995	16 ¾"	7 lbs.

CROSS BAR

Another dual purpose tool. Use it with the No. 89998 Sliding Tee Head to make Tee or Ell combinations or use it with the No. 89999 (or 89945) Ratchet Head as Handle. Has center groove for engaging spring backed ball in the cross hole.

Number	Length	Wgt.
89997	23"	6 lbs. 6 oz.

BUDD WHEEL SOCKET

New Socket designed for quick application and removal of *Budd type wheels.* Available in ¾" and 1" drive, each Socket has two openings, 13/16" square and 1½" hex, eliminating the need of two separate sockets.

Number	Drive Size	Weight
UWP-1460	1"	2 lbs.

REDUCING ADAPTER

Permits use of ¾" drive sockets with 1" drive parts. A valuable addition to any tool set.

Number	Length	Wgt.
69990	3"	1 lb.

SLIDING TEE HEAD ADAPTER

Used with No. 89997 Handle Bar to make Tee or Ell combination. Has spring backed ball in cross hole to grip Bar firmly.

Number	Length	Wgt.
89998	3 ½"	1 lb. 8 oz.

12-POINT SOCKETS

Number	Size	Length	Wgt.
80046	1 7/16"	2 1/2"	1 lb.
80048	1 1/2"	2 9/16"	1 lb. 4 oz.
80052	1 5/8"	2 11/16"	1 lb. 4 oz.
80054	1 11/16	2 3/4"	1 lb. 8 oz.
80058	1 13/16"	2 7/8"	1 lb. 12 oz.
80060	1 7/8"	2 15/16"	2 lbs. 4 oz.
80064	2"	3"	2 lbs. 4 oz.
80068	2 1/8	3 1/16"	2 lbs. 12 oz.
80070	2 3/16"	3 1/8"	2 lbs. 12 oz.
80072	2 1/4"	3 3/16"	2 lbs. 12 oz.
80076	2 3/8"	3 5/16"	3 lbs. 4 oz.
80080	2 1/2"	3 7/16"	3 lbs. 4 oz.
80084	2 5/8"	3 9/16"	3 lbs. 8 oz.
80088	2 3/4"	3 11/16"	4 lbs. 8 oz.
80094	2 15/16"	3 7/8"	5 lbs. 4 oz.
80096	3"	3 15/16"	5 lbs. 8 oz.
80100	3 1/8"	4 1/16"	6 lbs. 8 oz.

80046 to 80100

1" DRIVE 6 POINT IMPACT SOCKETS

These rugged, heavy duty sockets are precision engineered and built for industrial construction and truck jobs. They are made of alloy steel, drop forged, oil tempered with a black oxide finish for long life.

Number	Size	Length	Weight	Number	Size	Length	Weight
80200	3/4"	2 1/4"	1 Lb.	80230	1 11/16"	2 5/8"	1 3/4 Lb.
80202	7/8"	2 9/32"	1 Lb.	80232	1 3/4"	2 5/8"	2 1/2 Lb.
80204	15/16"	2 9/32"	1 Lb.	80234	1 13/16"	2 5/8"	2 1/2 Lb.
80206	1"	2 13/32"	1 Lb.	80236	1 7/8"	2 3/4"	2 1/2 Lb.
80208	1 1/16"	2 13/32"	1 Lb.	80238	1 15/16"	2 3/4"	2 3/4 Lb.
80210	1 1/8"	2 13/32"	1 Lb.	80240	2"	2 7/8"	2 3/4 Lb.
80212	1 3/16"	2 19/32"	1 1/2 Lb.	80242	2 1/16"	2 7/8"	2 3/4 Lb.
80214	1 1/4"	2 17/32"	1 1/2 Lb.	80244	2 1/8"	3"	3 1/4 Lb.
80216	1 5/16"	2 17/32"	1 1/2 Lb.	80246	2 3/16"	3"	3 1/2 Lb.
80218	1 3/8"	2 1/2"	1 1/2 Lb.	80248	2 1/4"	3"	3 Lb.
80220	1 7/16"	2 1/2"	1 1/2 Lb.	80250	2 5/16"	3 1/16"	3 3/4 Lb.
80222	1 1/2"	2 1/2"	1 1/2 Lb.	80252	2 3/8"	3 1/16"	3 1/2 Lb.
80226	1 9/16"	2 1/2"	1 3/4 Lb.	80254	2 7/16"	3 1/8"	3 1/2 Lb.
80228	1 5/8"	2 1/2"	1 3/4 Lb.	80256	2 1/2"	3 3/16"	3 1/2 Lb.

80200 to 80232

80234 to 80256

"O" RINGS

80500 For Part Numbers 80200 Through 80230

80502 For Part Numbers 80232 Through 80256

RETAINING PINS

80506 For Part Numbers 80200 Through 80230

80508 For Part Numbers 80232 Through 80256

15 PIECE EXTRA HEAVY DUTY SET

An extra heavy-duty set for the toughest jobs such as construction and maintenance work where strength is required.

12-Point Sockets

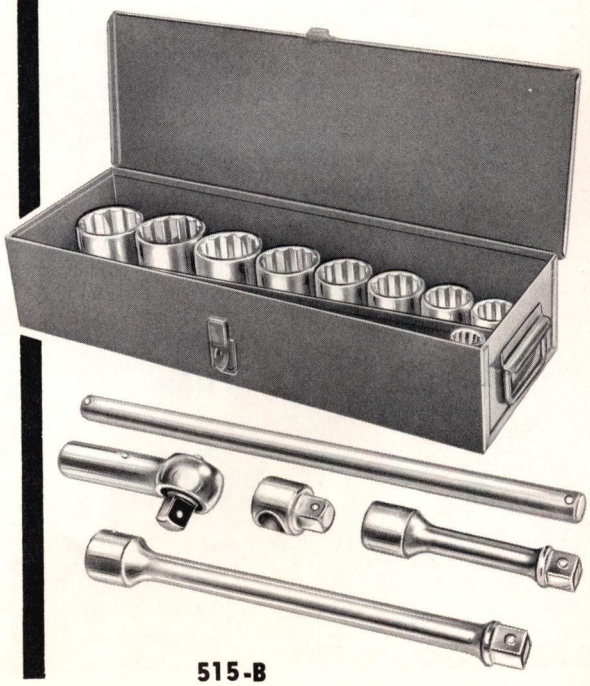
80046	1 7/16"	80076	2 3/8"
80052	1 5/8"	80080	2 1/2"
80058	1 13/16"	80084	2 9/16"
80064	2"	80096	3"
80070	2 3/16"		

Drive Parts

89996	7 1/2" Extension	89945	Ratchet
89995	16 3/4" Extension	89998	Slide Tee
89997	23" Handle Bar		

30442 Metal Box (23 5/8" x 8 1/2" x 5")

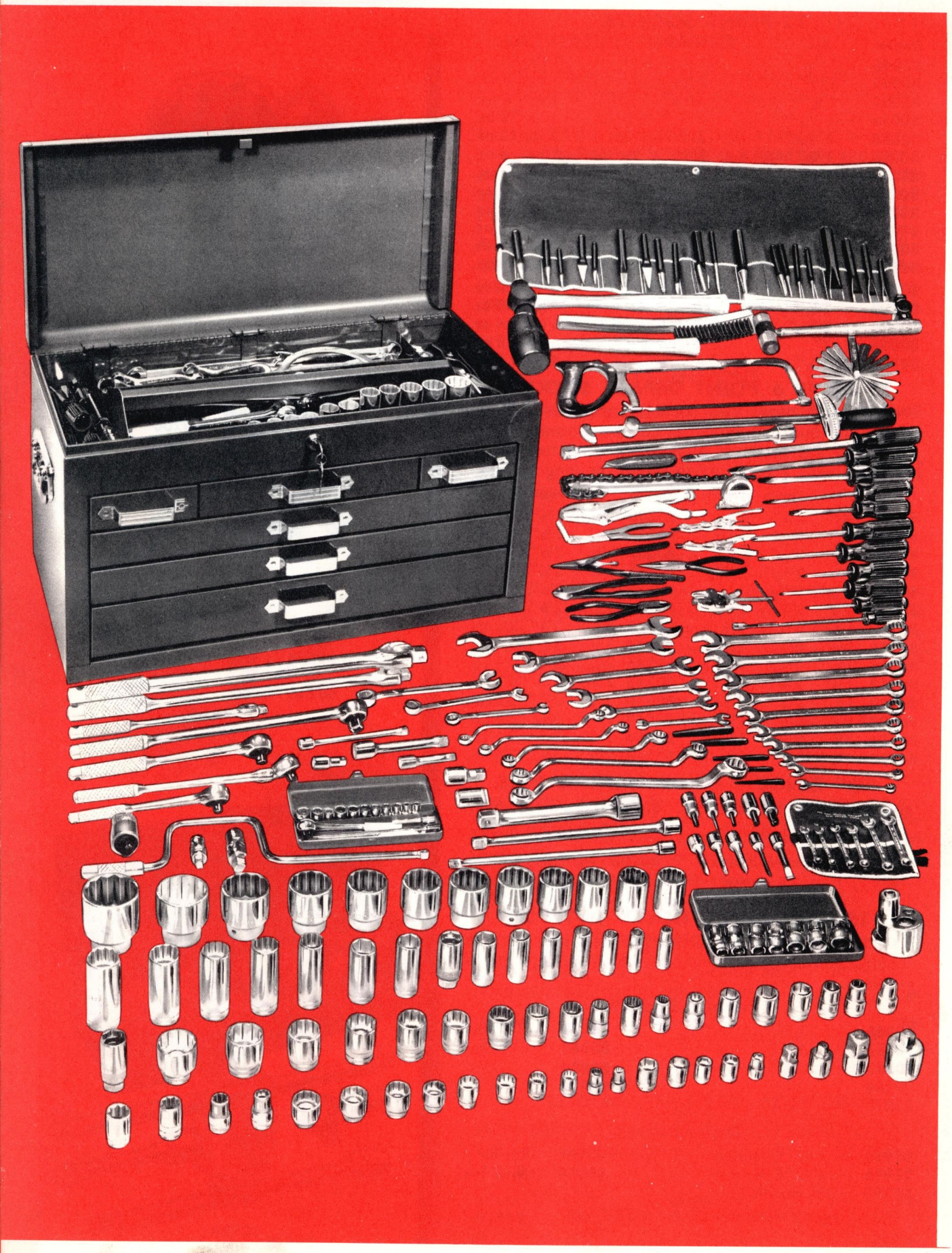
Number		Wgt.
515-B	15-Piece Set	72 lbs.



515-B

Master Set

Blackhawk™
HAND TOOLS



No. 699-B 247 PIECE ASSORTMENT MASTER TOOL SET

1/2"-DRIVE — 8-POINT SOCKETS

40212	3/8"	40214	7/16"	40216	1/2"	40218	9/16"

1/2"-DRIVE — 6 and 12-POINT SOCKETS

40614	7/16"	40622	11/16"	40118	9/16"	40126	13/16"	40134	1 1/16"
40616	1/2"	40624	3/4"	40120	5/8"	40128	7/8"	40136	1 1/8"
40618	9/16"	40114	7/16"	40122	11/16"	40130	15/16"	40140	1 1/4"
40620	5/8"	40116	1/2"	40124	3/4"	40132	1"		

1/2"-DRIVE — EXTRA DEEP 12-POINT SOCKETS

40326S	13/16" Spark Plug Skt.	40328	7/8"	40332	1"
40326	13/16"	40330	15/16"	40334	1 1/16"

1/2"-DRIVE PARTS

49973	Ratchet Adapter	49986	10" Cross Bar	49975	15" Revs. Ratchet	49980	Stud Extractor
49964	1 15/16" Extension	49945	10" Revs. Ratchet	34965	1/2" to 3/8" Red. Adapter		
49966	5" Extension	49988	18" Flex Handle	69992	1/2" to 3/4" Inc. Adapter		
49990	10" Extension	49978	Univ. Joint	49979	15/16" Drag Lk. Soc.		

3/8"-DRIVE — 6 and 12-POINT SOCKETS

30010A	5/16"	30020	5/8"	30612	3/8"	30212	3/8" Flex Skt.	30222	11/16" Flex Skt.
30012	3/8"	30022	11/16"	30614	7/16"	30214	7/16" Flex Skt.	30224	3/4" Flex Skt.
30014	7/16"	30024	3/4"	30616	1/2"	30216	1/2" Flex Skt.	13657	Box
30016	1/2"	30026	13/16"	30618	9/16"	30218	9/16" Flex Skt.		
30018	9/16"	30028	7/8"	30620	5/8"	30220	5/8" Flex Skt.		

3/8"-DRIVE — EXTRA DEEP 6-POINT SOCKETS

HW-1512	3/8"	HW-1516	1/2"	HW-1520	5/8"	HW-1524	3/4"	HW-1526S	13/16" Spark Pl. Skt.
HW-1514	7/16"	HW-1518	9/16"	HW-1522	11/16"	HW-1526	13/16"	HW-1528	7/8"

3/8"-DRIVE PARTS

34988	3" Extension	34986	10" Flex Handle	HW-9449	3/16" Allen Wr. Bit	HW-9445	3/8" Allen Wr. Bit
34987	6" Extension	34935	Flex Ratchet	HW-9448	7/32" Allen Wr. Bit	HW-9451	2" Phillips
34984	11" Extension	34982	16" Speeder	HW-9447	1/4" Allen Wr. Bit	HW-9452	3" Sc. Dr. Bit
34989	1 3/4" Extension	34993	Univ. Joint	BW-23	6 Pc. C. Wr. Set	HW-9453	4" Sc. Dr. Bit
34945	Revs. Ratchet	34966	3/8" to 1/2" Inc. Adapt.	HW-9446	5/16" Allen Wr. Bit	HW-9506	.040 Sc. Dr. Bit
						HW-9505	.035 Sc. Dr. Bit

1/4"-DRIVE SET

116-B Set 1/4"-Drive 13264 Box

3/4"-DRIVE — 12-POINT SOCKETS

60030	15/16"	60034	1 1/16"	60040	1 1/4"	60044	1 3/8"	60048	1 1/2"	60056	1 3/4"
60032	1"	60036	1 1/8"	60042	1 5/16"	60046	1 7/16"	60052	1 5/8"	60060	1 7/8"

69995	8" Extension	69994	16" Extension	69998	Flex Handle	49991	2" Adapter

WRENCHES

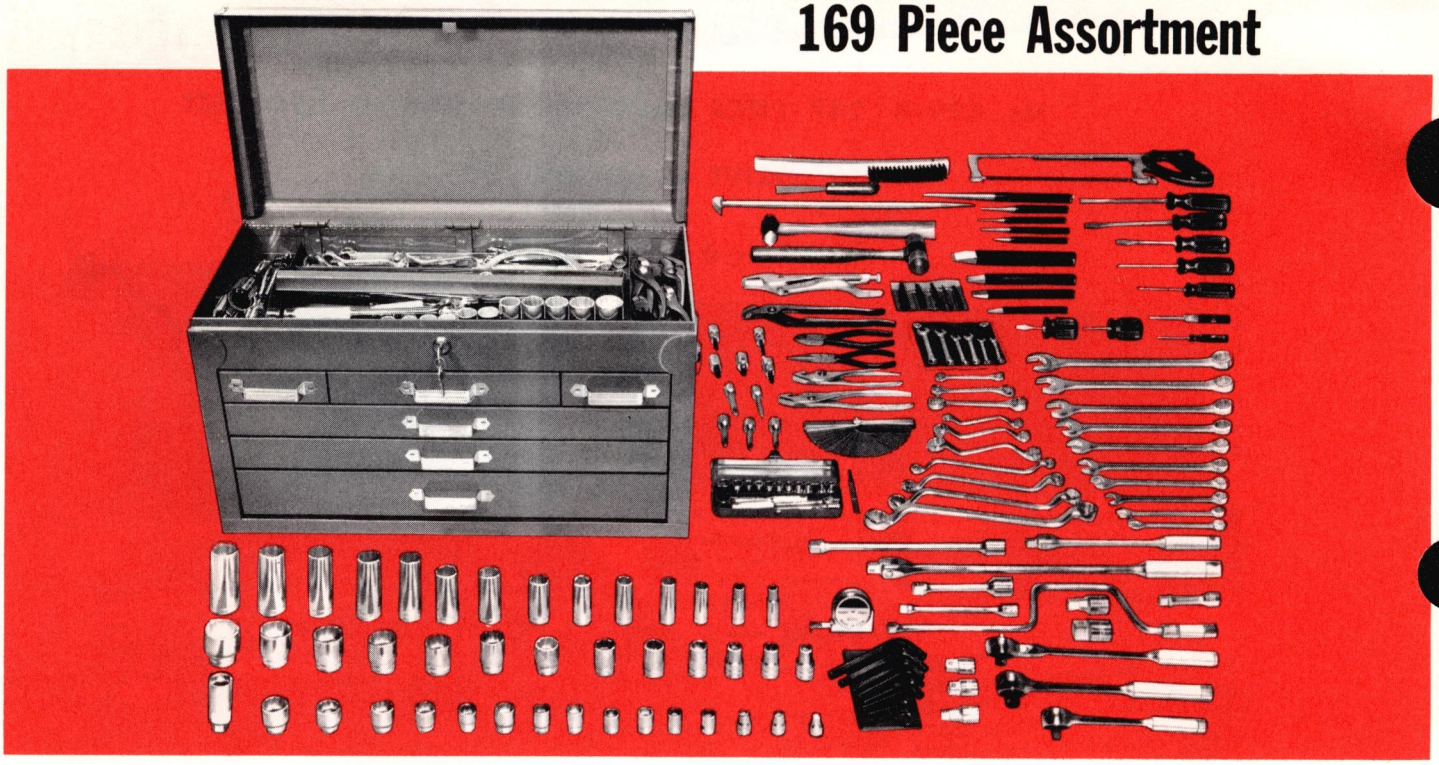
4723	3/8" x 7/16" O.E.	3116	7/32" x 1/4" Ignition	BW-1405	5/8" x 11/16" B.E.	BW-1164	5/8" x 5/8" C.W.
4725B	1/2" x 9/16" O.E.	3124	9/32" x 5/16" Ignition	BW-1208	3/8" x 7/16" B.E.	BW-1165	11/16" x 11/16" C.W.
4027	19/32" x 11/16" O.E.	3130	11/32" x 3/8" Ignition	BW-1208H	3/8" x 7/16" B.E.	BW-1166	3/4" x 3/4" C.W.
4729	5/8" x 3/4" O.E.	BW-1601	3/8" x 7/16" 15° Sh. Bx.	BW-1210	1/2" x 9/16" B.E.	BW-1167	13/16" x 13/16" C.W.
4731	3/4" x 13/16" O.E.	BW-1603	1/2" x 9/16" 15° Sh. Bx.	BW-1212	5/8" x 11/16" B.E.	BW-1167A	7/8" x 7/8" C.W.
4731A	3/4" x 7/8" O.E.	BW-1605	5/8" x 11/16" 15° Sh. Bx.	BW-1214	3/4" x 7/8" B.E.	BW-1168	15/16" x 15/16" C.W.
4033C	15/16" x 1" O.E.	15659	5/8" x 9/16" Hf. Moon	BW-1161	7/16" x 7/16" C.W.	BW-1170	1" x 1" C.W.
1090	7/16" x 1/2" O.E.	15660	5/8" x 3/4" Hf. Moon	BW-1162	1/2" x 1/2" C.W.	ZW-1214	3/8" x 7/16" F.N.
1092	9/16" x 5/8" O.E.	BW-1401	3/8" x 7/16" B.E.	BW-1163	9/16" x 9/16" C.W.	ZW-1215	1/2" x 9/16" F.N.
3114	13/64" x 15/64" Ignition	BW-1403	1/2" x 9/16" B.E.			ZW-1216	5/8" x 11/16" F.N.

OTHER TOOLS

HT-1452	Soft Face Hammer	PT-85	Spark Plug Term. Plier	ST-1140	1 1/2" Phillips Sc. Dr.	ZT-1310	Tire and Rim Brush
HT-1003-1	Ball Peen Hammer	ET-1071	Battery Terminal Puller	ST-1081	3" Phillips Sc. Dr.	ZT-1114	Shop Knife
HT-1008-1	Ball Peen Hammer	PT-1002	6" Slip Joint Pliers	ST-1082	4" Phillips Sc. Dr.	FT-1204	Hacksaw Frame
ZT-1112	Putty Knife	PT-1057	7" Diagonal Cutters	ST-1083	6" Phillips Sc. Dr.	ZW-1120	Lever Jaw Wr.
PT-1264	Int. Snap Ring Plier	ST-1024	4" Screw Driver	ST-1167	Screw Starter	ZW-58	Hex Key Wr. Set
PT-1265	Ext. Snap Ring Plier	ST-1006	6" Screw Driver	AW-1351	Universal Chain Wr.	DT-55	Screw Extractor Set
PT-1003	8" Slip Joint Plier	ST-1026	6" Screw Driver	49825	Rd. Beam Torque Wr.	XT-1014	Carburetor Adj. Tool
PT-1052	6" Cutting Plier	ST-1028	8" Screw Driver	ZT-1212	Tin Snips	MT-1049	All Purp. Feeler Gauge
PT-1263	8" Parrot Nose Plier	ST-1032	12" Screw Driver	ST-1100	3" Clutch Type Sc. Dr.	MT-1041	Special Wire Gauge
PT-1266	7 3/4" Lock Ring Plier	ST-1150	Pocket Sc. Driver	ST-1102	4" Clutch Type Sc. Dr.	FT-1003	Ignition Point File
PT-1128	6 1/2" Side Cutting Plier	ST-1214	Spark Sc. Driver	ST-1103	5" Clutch Type Sc. Dr.	CT-114	Chisel and Punch Set
CT-1617	Pry Bar	ST-1146	Adjusting Sc. Driver	ZT-1193	16 1/2" Magnet Tool	HT-1255	Rubber Mallet
						MT-1108	Steel Tape Rule

31234BH Metal Box (14 1/4" x 26" x 12 3/16")

Super Set
169 Piece Assortment



No. 698-B 169 PIECE ASSORTMENT SUPER TOOL SET

1/2"-DRIVE — 6 and 12-POINT SOCKETS

40614	7/16"	40620	5/8"	40126	13/16"	40132	1"	40136	1 1/8"
40616	1/2"	40122	11/16"	40128	7/8"	40134	1 1/16"	40140	1 1/4"
40618	9/16"	40124	3/4"	40130	15/16"				

1/2"-DRIVE — EXTRA DEEP 12-POINT SOCKETS

40326	13/16"	40328	7/8"	40330	15/16"	40332	1"	40334	1 1/16"

1/2"-DRIVE PARTS

49964	1 15/16" Extension	49990	10" Extension	49988	18" Flex Handle	34965	1/2" to 3/8" Red. Adap.
49966	5" Extension	49945	Revs. Ratchet	49978	Univ. Joint	69992	1/2" to 3/4" Inc. Adap.

3/8"-DRIVE — 6 and 12-POINT SOCKETS

30010A	5/16"	30018	9/16"	30026	13/16"	30616	1/2"	30214	7/16" Flex Skt.
30012	3/8"	30020	5/8"	30028	7/8"	30618	9/16"	30216	1/2" Flex Skt.
30014	7/16"	30022	11/16"	30612	3/8"	30620	5/8"	30218	9/16" Flex Skt.
30016	1/2"	30024	3/4"	30614	7/16"				

3/8"-DRIVE — EXTRA DEEP 6-POINT SOCKETS

HW-1512	3/8"	HW-1516	1/2"	HW-1520	5/8"	HW-1524	3/4"	HW-1526S	13/16" Spark Pl. Skt.
HW-1514	7/16"	HW-1518	9/16"	HW-1522	11/16"	HW-1526	13/16"	HW-1528	7/8"

3/8"-DRIVE PARTS

34988	3" Extension	34935	Flex Ratchet	HW-9452	3" Phillips Sc. Dr. Bit	HW-9446	5/16" Allen Wr. Bit
34987	6" Extension	34993	Univ. Joint	HW-9453	4" Phillips Sc. Dr. Bit	HW-9445	3/8" Allen Wr. Bit
34989	1 3/4" Extension	34966	3/8" to 1/2" Inc. Adapt.	HW-9449	3/16" Allen Wr. Bit	HW-9505	.035 Sc. Dr. Bit
34945	Revs. Ratchet	34982	16" Speeder	HW-9448	7/32" Allen Wr. Bit	HW-9506	.040 Sc. Dr. Bit
34986	10" Flex Handle	HW-9451	2" Phillips Sc. Dr. Bit	HW-9447	1/4" Allen Wr. Bit	BW-23	6 Pc. C. Wr. Set

1/4"-DRIVE SET

116-B Set 1/4"-Drive 13264 Box

WRENCHES

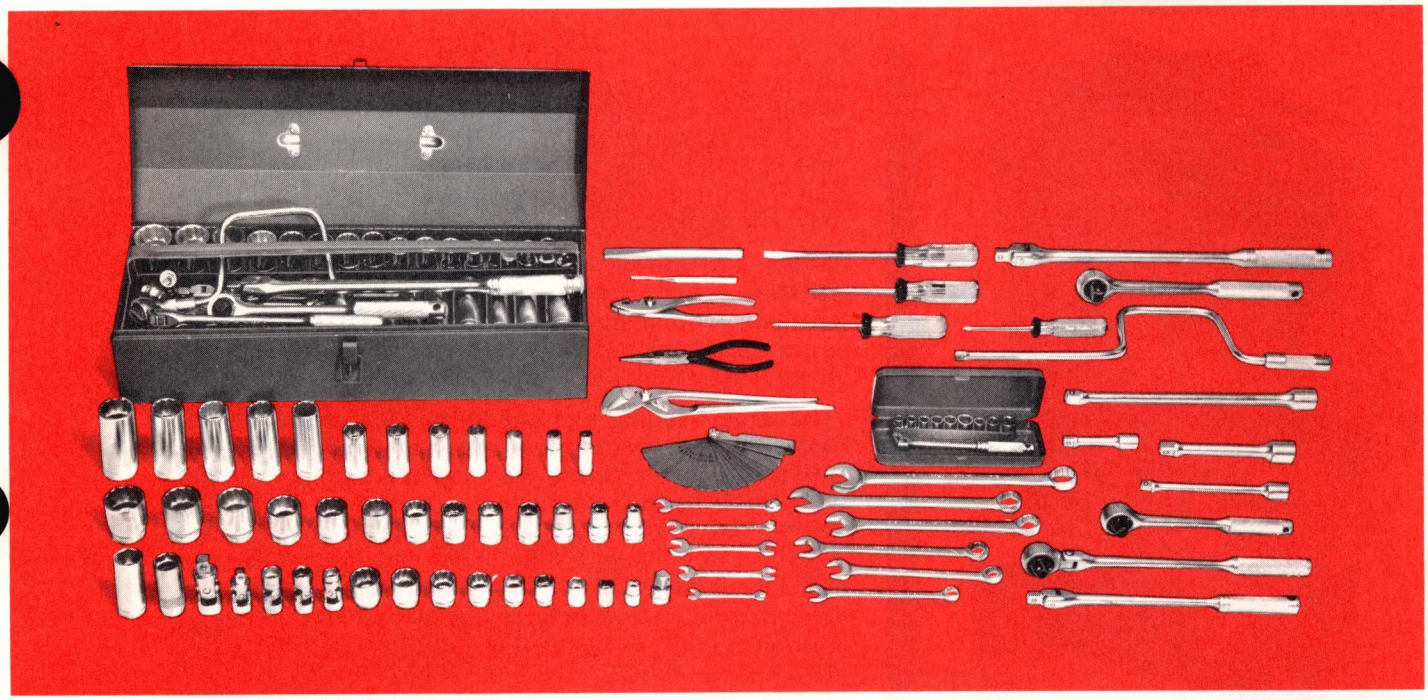
BW-1161	7/16" x 7/16" C.W.	BW-1167	13/16" x 13/16" C.W.	BW-1208	3/8" x 7/16" B.E.	BW-1405	5/8" x 11/16" B.E.
BW-1162	1/2" x 1/2" C.W.	BW-1167A	7/8" x 7/8" C.W.	BW-1210	1/2" x 9/16" B.E.	BW-1601	3/8" x 7/16" 15° Sh. Bx.
BW-1163	9/16" x 9/16" C.W.	BW-1168	15/16" x 15/16" C.W.	BW-1212	5/8" x 11/16" B.E.	BW-1603	1/2" x 9/16" 15° Sh. Bx.
BW-1164	5/8" x 5/8" C.W.	BW-1170	1" x 1" C.W.	BW-1214	3/4" x 7/8" B.E.	BW-1605	5/8" x 11/16" 15° Sh. Bx.
BW-1165	11/16" x 11/16" C.W.	1090	7/16" x 1/2" O.E.	BW-1401	3/8" x 7/16" B.E.	ZW-1214	3/8" x 7/16" F.N.
BW-1166	3/4" x 3/4" C.W.	1092	9/16" x 5/8" O.E.	BW-1403	1/2" x 9/16" B.E.	ZW-1215	1/2" x 9/16" F.N.
						15659	5/8" x 9/16" Hf. Moon

OTHER TOOLS

HT-1452	Soft Face Hammer	ST-1024	4" Shank Sc. Driver	CT-1004	5 1/2" Cold Chisel	ZT-1310	Tire and Rim Brush
HT-1003-1	Ball Peen Hammer	ST-1006	6" Shank Sc. Driver	CT-1006	6 1/4" Cold Chisel	FT-1204	Hack Saw Frame
ZT-1114	Putty Knife	ST-1026	6" Shank Sc. Driver	CT-1008	7" Cold Chisel	ZW-1120	Lever Jaw Wr.
PT-1003	8" Slip Joint Plier	ST-1150	Pocket Sc. Driver	CT-1010	8" Cold Chisel	ZW-58	Hex Key Wr. Set
PT-1052	6" Cutting Plier	ST-1214	Spark Sc. Driver	CT-1314	5" Prick Punch	DT-55	Sc. Extractor Set
PT-1250	Rib Lock Plier	ST-1146	Adjusting Sc. Driver	CT-1453	6" Pin Punch	MT-1049	All Purp. Feeler Ga.
PT-1128	6 1/2" Side Cut. Plier	ST-1140	1 1/2" Phillips Sc. Dr.	CT-1454	6 1/8" Pin Punch	FT-1003	Ignition Point File
CT-1617	Pry Bar	ST-1081	3" Phillips Sc. Dr.	CT-1464	6" Pin Punch	MT-1108	Steel Tape Rule
PT-1002	6" Slip Joint Pliers	ST-1082	4" Phillips Sc. Dr.	CT-1558	10 1/2" Taper Punch		

31234BH Metal Box (14 1/4" x 26" x 12 3/16")

Multi Set
84 Piece Assortment



No. 684-B 84 PIECE ASSORTMENT MULTI-DUTY TOOL SET

1/2"-DRIVE — 6 and 12-POINT SOCKETS

40614	7/16"	40122	11/16"	40130	15/16"
40616	1/2"	40124	3/4"	40132	1"
40618	9/16"	40126	13/16"	40134	1 1/16"
40620	5/8"	40128	7/8"	40136	1 1/8"
				40140	1 1/4"

1/2"-DRIVE — EXTRA DEEP 12-POINT SOCKETS

40326	13/16"		H-14	5/16" x 11/32"	O.E. Wr.	BW-1163	9/16" x 9/16" C. Wr.
40328	7/8"		H-16	3/8" x 7/16"	O.E. Wr.	BW-1164	5/8" x 5/8" C. Wr.
40330	15/16"		BW-1158H	5/16" x 5/16"	C. Wr.	BW-1165	11/16" x 11/16" C. Wr.
40332	1"		BW-1160H	3/8" x 3/8"	C. Wr.	BW-1166	3/4" x 3/4" C. Wr.
40334	1 1/16"		BW-1161	7/16" x 7/16"	C. Wr.	CT-1006	Cold Chisel
H-12	1/4" x 9/32"	O.E. Wr.	BW-1162	1/2" x 1/2"	C. Wr.	CT-1453	Pin Punch

1/2"-DRIVE PARTS

49966	5" Extension	49945	Revs. Ratchet	49988	18" Flex Handle
49990	10" Extension			49978	Univ. Joint

3/8"-DRIVE — 6 and 12-POINT SOCKETS

30022	11/16"	30612	3/8"	30620	5/8"
30024	3/4"	30614	7/16"	30214	7/16" Flex Skt.
30026	13/16"	30616	1/2"	30216	1/2" Flex Skt.
30028	7/8"	30618	9/16"	30218	9/16" Flex Skt.

3/8"-DRIVE — EXTRA DEEP 6-POINT SOCKETS

HW-1512	3/8"	HW-1518	9/16"	HW-1524	3/4"
HW-1514	7/16"	HW-1520	5/8"	HW-1526	13/16"
HW-1516	1/2"	HW-1522	11/16"	HW-1526S	13/16" Spark Pl. Skt.

3/8"-DRIVE PARTS

34988	3" Extension	34986	10" Flex Handle	34982	16" Speeder
34987	6" Extension	34935	Flex Ratchet	34993	Univ. Joint
34945	Revs. Ratchet			34966	1/2" to 3/8" Red. Adapt.

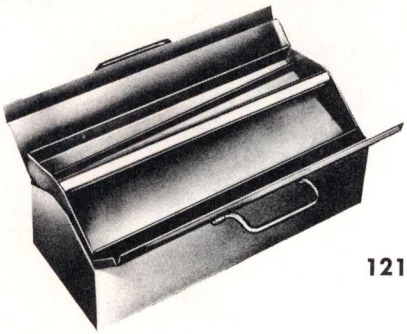
1/4"-DRIVE SET

111-B Set 1/4"-Drive 13265 Box

OTHER TOOLS

PT-1250	Rib Lock Plier	ST-1024	4" Shank Sc. Driver	ST-1081	3" Phillips Sc. Driver
PT-1002	6" Slip Joint Plier	ST-1026	6" Shank Sc. Driver	ST-1082	4" Phillips Sc. Driver
PT-1128	6 1/2" Side Cutting Plier			MT-1049	All Purp. Feeler Gauge

30580 Metal Box (19 1/2" x 6 3/4" x 6 1/4")

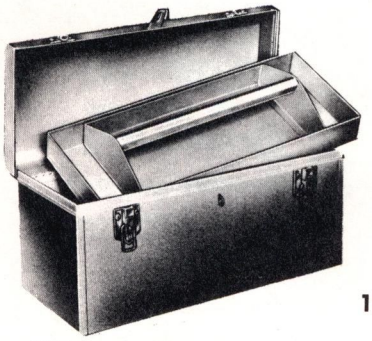


12108

TOOL BOX

Shape, size and style that's ideal for mechanics on the move or in the plant. And a price that's hard to beat. Long and shallow, with two-way open-wide cover, tools and parts are easy to reach. Both cover sections have full length piano hinge, plated handle. Heavy duty tote tray with socket divider.

Number	Dimensions	Weight
12108	19" x 6" x 6½"	7 lbs.

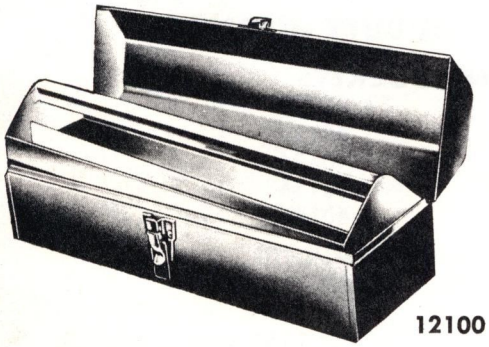


12112

TOOL BOX

The largest-selling tool box in the Blackhawk line — the size most mechanics want, and strength that outgrips any other. Built with bottom-bracing cap-end construction; husky full-length piano type hinge with watershed cover protector. Two heavy-duty positive catch draw-bolts with steel hasp end eyebolt for padlocking. 3-compartment tray. Comfort grip handle.

Number	Dimensions	Weight
12112	9½" x 20" x 8½"	11¼ lbs.

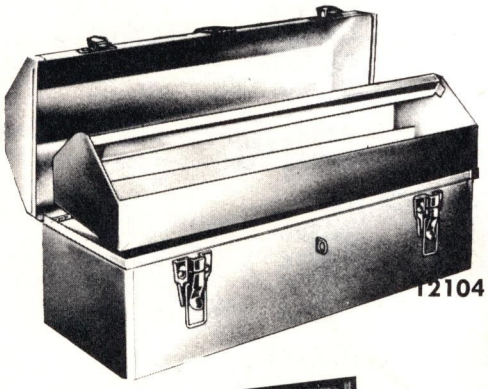


12100

TOOL BOX

Here's room for lots of tools in a compact box — at a compact price. The hip roof design provides the same space as many larger boxes and jumbo-size space in the tote tray. Heavy duty throughout with full length piano hinge, water-shed cover.

Number	Dimensions	Weight
12100	19¾" x 6" x 6"	7¼ lbs.

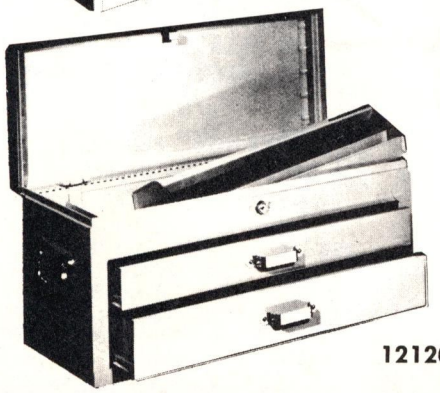


12104

TOOL BOX

Big, roomy, heavy-duty box with bonus capacity of hip-roof design. Ideal for mechanics and other professionals who carry bulky drills, soldering irons, etc. Jumbo-size, 2-compartment tote tray with easy-grip handle. Full length piano hinge with watershed cover. 2 oversize heavy duty positive lock drawbolts. Built with super strong cap-end construction.

Number	Dimensions	Weight
12104	19¾" x 8" x 7"	9¼ lbs.



12120

TOOL CHEST

The Blackhawk compact chest, that is unique in size and quality. Heavy duty full suspension slides give chest drawers top load capacity and durability. Cover locks all drawers when closed. Strong tumbler lock secures cover. Big tote tray has formed steel comfort grip handle, supported by rails welded to front, back and sides. Cover has full length piano hinge. All hardware is heavy duty and heavily plated.

Number	Dimensions	Weight
12120	26" x 11¾" x 10"	37 lbs.

HEAVY DUTY CASTERS:

Number
12154 4" rigid casters
12156 4" swivel casters

TOOL CHEST

The 12128, designed for the professional and master mechanic. The extra strength, the mark of quality, the work of precision and the look of leadership, is only part of this chest design. Composed of heavy-gauge steel — corner posts that are twice as wide as most others — big full-length reinforcing channels — block welds at vital stress points — drawers that exceed 20-year durability standards — triple-coat no-mar finish. Chest drawers on heavy duty full suspension slides. Cover locks all drawers. Tumbler lock secures cover. Full length piano hinge. All hardware heavily plated.

Number	Dimensions	Weight
12128	26⅛" x 19" x 12⅛"	73½ lbs.

12128

TOOL CHEST

It's not how you make it good, its how good you make it. Here's where Blackhawk chests part company with other brands. Built with heavy gauge steel, exclusive internal reinforcing channels, double-width corner posts, flange-weld and one-piece bottom, no-mar finish. Chest drawers work on heavy-duty full suspension slides. Cover automatically locks all drawers when closed. Strong tumbler lock, two keys. Full-size lift out tray with comfort formed handle. Full length piano hinge. Hardware is heavily plated.

Number	Dimensions	Weight
12124	26⅛" x 15" x 12⅛"	60½lbs.

12124

4 DRAWER ROLLAWAY

The model that challenges comparison for strength, load capacity, drawer-durability and value. Built with Blackhawk's exclusive internal reinforcing channels, double-width corner posts, flange-weld and one-piece bottom, no-mar finish. Cabinet drawers, on special wide-track roller slides, are extra strong, super smooth-working. They open with fingertip ease. The more weight they carry, the easier they glide. Panel front locks all drawers and compartment. 3-inch roller bearing wide-tread casters, 2 rigid and 2 swivel, with brake.

Number	Dimensions	Weight
12136	26⅜" x 32⅜" x 18"	101 lbs.

12136

6 DRAWER ROLLAWAY

The King of all cabinets. This is the size where Blackhawk's extra strength construction really stands out — where quality shows in rigidity. The heavy-gauge steel — the corner posts that are twice as wide as most others — big full length reinforcing channels — block welds at vital stress points — drawers that exceed 20-year durability standards — triple-coat no-mar finish, all this with the research and knowledge of knowing what the mechanic wants. Super-strong, smooth working cabinet drawers. Panel front locks drawers and compartment. Big 4 inch roller bearing casters with wide tread, 2 rigid, 2 swivel with brake.

Number	Dimensions	Weight
12140	26⅜" x 40⅜" x 18"	120 lbs.

12140

Blackhawk™ HAND TOOLS

12117

12116

12115

Blackhawk proudly annouces the addition of three new tool chests to its line of fine tools. Made of extra heavy-gauge steel for heavy duty work applications and long life, these quality chests feature easy sliding drawers with deluxe pulls for that custom look. All contain Pilfer-Proof locks.

10 DRAWER CHEST

EXTRA DEEP CHEST . . . Not just the standard 12 inch . . . but a 15 plus inches deep chest for extra capacity. Extra heavy-gauge steel for heavy-duty work. Nine drawers plus a drawer to hold ¼" drill or ⅜" drive air wrench.

SPECIALLY MADE TO FIT ON TOP OF BLACKHAWK ROLL-AWAY NO. 12115. Lip on the cabinet prevents the chest from sliding around or off when it's bumped or moved from one place to another.

Width	Depth	Height
26⅛"	15 1/16"	18"
Part No.		**Weight**
12117		105 lbs.

3 DRAWER CHEST

Provides large storage space and tool separation in compact areas. Three full-width drawers . . . each 22½" wide by 11" deep and 2⅛" high. Securely locked with panel and tumbler lock. This intermediate chest fits between most rollaways and extra deep chests, providing the mechanic a complete storage compartment for his Blackhawk Hand Tools.

Width	Depth	Height
26⅛"	12⅛"	10¼"
Part No.		**Weight**
12116		44 lbs.

11 DRAWER ROLLAWAY

Maximum storage capacity for all sizes and types of tools or maintenance equipment and its mobility allows mechanics to take his tools directly to the job or work site. Big 4" roller bearing wide-thread casters, 2 rigid and 2 swivel with toe brake.

Contains 11 drawers . . . two deep drawers at the bottom, three medium-sized middle drawers plus six smaller drawers at the top of the cabinet. This enables the mechanic to have the maximum tool separation to get the job done quicker and easier.

Width	Depth	Height
26½"	18⅛"	34¾"
Part No.		**Weight**
12115		172 lbs.

USE THIS HANDSOME ROLLAWAY TO COMPLIMENT NO. 12117 (10 DRAWER CHEST) TO GIVE YOU A MIGHTY 21 DRAWER STORAGE CAPACITY!

These Blackhawk pliers are hot drop forged from special analysis alloy steel. The cutting edges are hardened by electronic induction and honed by hand for keen edges that retain their sharpness.

HEAVY DUTY DIAGONAL CUTTING PLIERS

The sturdy construction, large cutting angle and spoon shaped jaws, make this a popular Plier with mechanics. Finish polished head.

Number	Size	Weight
PT-1057	7"	8 oz.

LARGE DIAGONAL PLIERS

A real handful that permits tremendous leverage and will quickly and surely cut all of the wire that you will ever encounter. Temper blue finish, polished heads.

Number	Size	Weight
PT-1060	7"	12 oz.

LINEMAN'S PLIERS

A new design in construction pliers developed in cooperation with Utilities Companies. You will appreciate its many advantages the moment you see and handle a pair of these heavy duty line pliers. Polished heads, temper blue handles.

Number	Size	Weight
PT-1108	8"	14 oz.

DIAGONAL CUTTING PLIERS

Very popular among automobile mechanics because the jaws are hardened to cut piano wire or choke wire. Finish polished head.

Number	Size	Weight
PT-1052	6"	5 oz.

LONG NOSE SIDECUTTING PLIERS

For some simple gripping jobs a low-priced plier will serve almost as well as a specially drop forged and heat treated product. However, for long reach work in any restricted corners, there is no choice about the tool to use. Temper blue finish, polished heads.

Number	Size	Weight
PT-1128	6½"	5 oz.

CURVED NEEDLE NOSE PLIERS

For use in deep and narrow places. Perfect for assembly or adjustments where clearance is limited.

Number	Length	Weight
PT-1149	6"	5 oz.

FLUSH BOLT SIDECUTTERS

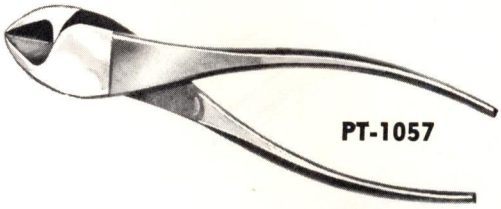
Special Blackhawk flush bolt sidecutter for the automotive mechanic. The sidecutting jaws are real cutters. Use them for gripping and holding on all your work. Temper blue finish, polished heads.

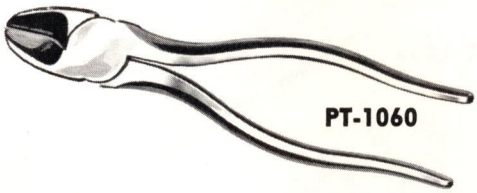
Number	Size	Weight
PT-1029	7"	5 oz.

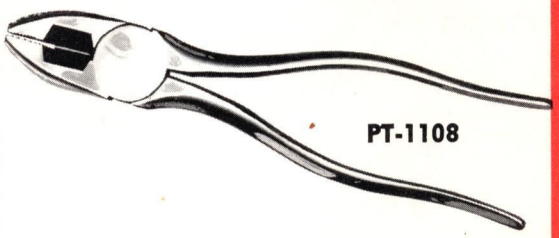
HEAVY DUTY SLIP JOINT COMBINATION PLIERS

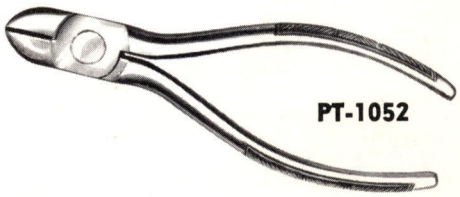
Snub-nosed design with smooth-action slip joint. Powerful, sure-grip jaws. Knurled grip and polished.

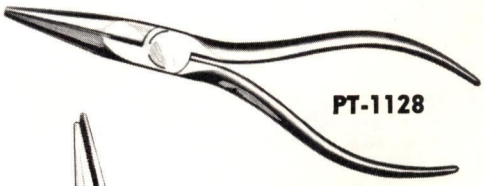
Number	Size	Weight
PT-1000 (Satin Chrome)	6"	8 oz.
PT-1002	6"	8 oz.
PT-1003	8"	10 oz.
PT-1004	10"	12 oz.
PT-1011 (Thin Nose)	5"	3 oz.
PT-1023 Extra heavy duty	8"	12 oz.

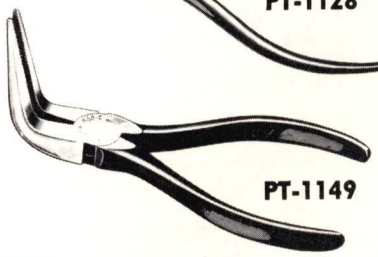

PT-1057

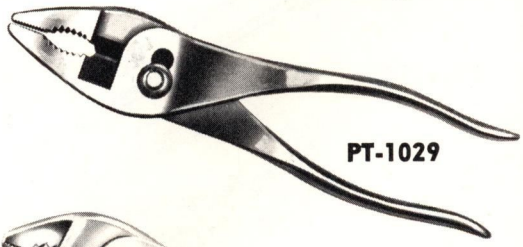

PT-1060

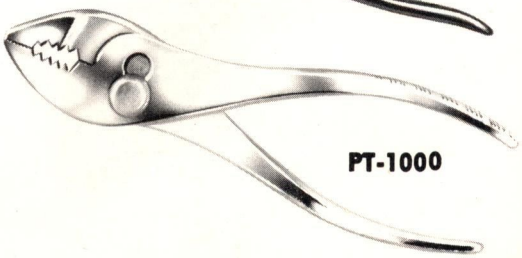

PT-1108


PT-1052


PT-1128


PT-1149


PT-1029


PT-1000

RIB-LOCK PLIERS

The rib construction of the joint takes all the strain off the nut and pin. This results in a far stronger plier. The greater the pressure, the tighter the grip, even when pressure is applied to only one handle. Full forged of high grade alloy steel.

Number	Length	Weight
PT-1250	10″	12 oz.

WATER PUMP AND ELECTRICIAN'S PLIERS

Six place slip-joint Pump Plier. A general utility tool for narrow quarters and wide spans. Smooth working adjustments over a wide range.

Number	Length	Weight
PT-1253	10"	11 oz.

HEAVY DUTY PARROT NOSE PLIERS

Powerful gripping Pliers, drop forged from special alloy steel. The sturdy jaws grip like a pipe wrench. Rib grooves increases work range. Polished head.

Number	Size	Weight
PT-1263	8″	10 oz.

LARGE RIB JOINT PLIER

Multiple Rib grooves provide extra flexibility for application up to 2¾″. Large plastic coated handles enable user to exert maximum pressure comfortably.

Part No.	Length	Weight
PT-1248	14"	2 lbs.

IGNITION PLIERS

A midget Plier that is intended for heavy work. The exclusive design guarantees a solid grip on any small nut. Three adjustments with a ½″ range.

Number	Size	Weight
PT-1251	5″	½ lb.

BRAKE SPRING PLIERS

A sturdy Tool of the popular type for brake spring services. Has the leverage to handle the strongest springs with ease. Notched ends for adjustments. Polished head.

Number		Size	Weight
PT-1261		13"	12 oz.
PT-1262	With adapter for lifting anchor pins.	14"	18 oz.

LOCK CLIP REMOVAL TOOL

Removes horseshoe spring clip that holds inside door and window handles on most new and old model Fords and General Motors cars. Made of high grade alloy steel.

Part No.		Length	Weight
BT-1250	G.M.	7¾"	4 oz.
PT-92	G.M. and Ford	6¾"	4 oz.

BATTERY PLIERS

Designed expressly for battery installation work. Offset jaws provide good knuckle clearance. Chrome plated. Heavy duty steel with polished and buffed head.

Number	Size	Weight
PT-1259	7"	10 oz.

BATTERY TERMINAL CLAMP SPREADER AND CLEANER

A triple purpose tool it spreads the battery terminal clamp, cleans it, and also cleans the battery terminal post. Insert spreader into clamp and spread handles.

Number	Length	Weight
PT-1272	7½"	10½ oz.

HOSE CLAMP PLIER

Handles standard type of hose clamps. Jaw openings hold the clamp in line or at right angles to the handle.

Part No.	Length	Weight
PT-1280	8"	12 oz.

LOCK RING PLIERS

Designed to spread snap lock rings and remove horseshoe type of brake key from brake shoe. Spring action keeps jaws in closed position for easy operation. Jaws notched and outside face knurled to prevent slipping.

Number	Size	Weight
PT-1266	7¾"	7 oz.

SNAP RING PLIERS

Pliers remove snap rings quickly and easily without damaging snap rings or bearing surfaces.

Number	Length	Weight
P-59B	10"	6 oz.

SNAP RING PLIERS

An economy plier with easily interchangeable tips that makes snap ring installation and removal "a snap." Available in both external and internal types with four sets of tips. Plastic handles insure a non-slip comfortable grip. Hexagonal points are automatically aligned and cannot twist. Each plier is individually packed with four sets of interchangeable tips.

Part No.	Description
PT-1264	Internal Snap Ring Pliers
PT-1265	External Snap Ring Pliers
PT-1166-1	90° Angle Tip .035 Diameter
PT-1166-2	45° Angle Tip .045 Diameter
PT-1166-3	Straight Tip .045 Diameter
PT-1166-4	Straight Tip .060 Diameter

SPARK PLUG TERMINAL PLIERS

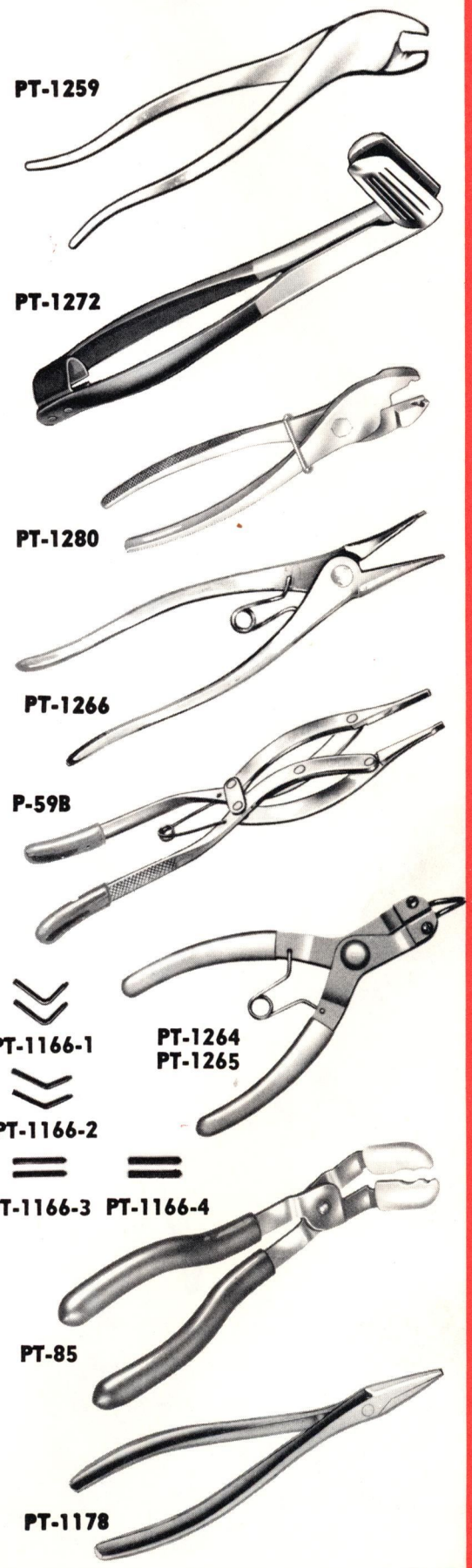
Removes Spark Plug Terminal Wires without fear of shock hazard up to 25,000 volts or more. These pliers have been designed and tested to withstand voltages far in excess of any a mechanic should encounter. Genuine Delrin "500" tips provide maximum shock protection and durability. Safety grips add dual protection and comfort.

Part No.	Weight
PT-85	4 oz.

DUCK BILL WIRING PLIERS

Standard long duckbill. Ideal for wiring, also in assembly work where long reach is required.

Number	Length	Weight
PT-1178	8"	7 oz.



Blackhawk™ HAND TOOLS

BEZEL NUT PLIERS

Instrument panel controls, such as light, wiper, radio and ignition switches, plus antenna mounts, are usually held in place by a bezel nut. Using this new bezel nut plier, the mechanic can easily loosen or tighten these nuts, and in most cases, without removing the control knobs. Tool can be used on all sizes of bezel nuts. Comfort-grip handles are covered with red plastic.

Number	Length	Weight
PT-1157	7″	4 oz.

WIRE STRIPPER AND CRIMPER

Designed for crimping both non-insulated and insulated terminals. Wire cutter/wire stripper handles from 10 to 22 gauge wire.

Number	Size	Weight
PT-1050	8½″	**8 oz.**

MIDGET PLIERS

Blackhawk midget pliers are drop forged from alloy steel, accurately machined, heat treated and tested for highest quality. Cutting edges are hand ground. All have oil and chemical resistant vinyl grips. Styles are carefully selected for precision work. All styles are 4-1/2″ long.

Midget Diagonal Cutting Pliers — semi-flush edges for close, accurate cutting.

Number	Size	Weight
PT-1150	4½″	3 oz.

Midget End Cutting Nippers — high leverage semi-flush cutting.

Number	Size	Weight
PT-1152	4½″	3 oz.

Midget Needle Nose Pliers — slender jaws taper to a needle point.

Number	Size	Weight
PT-1154	4½″	3 oz.

Midget Round Nose Pliers — tapered, round jaws form accurate loops.

Number	Size	Weight
PT-1156	4½″	3 oz.

Midget Flat Nose Pliers — flat, wide jaws for stronger gripping.

Number	Size	Weight
PT-1158	4½″	3 oz.

Midget Plier Set — contains the five above pliers packaged in an attractive reusable vinyl kit.

Number	Weight
PT-1160	1 Lb.

Forged Open End Wrenches

Thin heads, greater strength, and perfect balance is our standard for Open End Wrenches. Drop forged of the finest alloy steel, these Open Ends will resist the strain of constant use. The accurate milled openings insure proper fit.

Part No.	Sizes	Length	Weight	Part No.	Sizes	Length	Weight
H-10	3/16" x 7/32"	2 1/2"	1 oz.	4027A	5/8"x11/16"	7 5/8"	4 oz.
H-12	1/4" x 9/32"	3"	1 oz.	4729	5/8"x 3/4"	8"	6 oz.
H-14	5/16" x 11/32"	3 3/4"	1 oz.	4029B	11/16"x 3/4"	8 7/16"	6 oz.
H-16	3/8" x 7/16"	4 1/4"	2 oz.	4731	3/4"x13/16"	9 1/8"	9 oz.
H-18	13/32" x 15/32"	4 1/4"	2 oz.	4031B	25/32"x13/16"	9 1/8"	10 oz.
4020	1/4"x 5/16"	4 3/16"	1 1/2 oz.	4731A	3/4"x 7/8"	9 7/8"	12 oz.
4721	5/16"x 3/8"	4 13/16"	2 oz.	4731B	13/16"x 7/8"	9 1/16"	8 oz.
4723	3/8"x 7/16"	5 1/4"	2 oz.	4033A	7/8"x15/16"	12 13/16"	13 oz.
4725	7/16"x 1/2"	5 7/8"	3 oz.	4033C	15/16"x 1"	12 13/16"	15 oz.
4725B	1/2"x 9/16"	6 1/2"	3 oz.	4735A	1 1/16"x 1 1/8"	13 7/8"	1 lb. 5 oz.
4727	9/16"x 5/8"	7 1/4"	4 oz.	4037	1 1/16"x 1 1/4"	14 7/8"	1 1/2 lbs.
4027	19/32"x11/16"	7 5/8"	4 oz.	4039B	1 1/4"x15/16"	16 3/16"	2 lbs. 4 oz.

TAPPET WRENCHES

Double end. Offset heads. A new design in tappet wrenches which eliminates needless duplication of lengths and sizes. These are short enough to take care of the small clearance jobs and yet long enough to handle practically all of the work on present day cars.

No.	Opening	Length	Wgt.
1090	7/16"x 1/2"	10"	3 1/2 oz.
1090G	7/16"x17/32"	10"	3 1/2 oz.
1090D	1/2"x 9/16"	10"	3 1/2 oz.
1092	9/16"x 5/8"	10"	4 oz.
1092F	5/8"x11/16"	10"	4 1/2 oz.
1094	3/4"x 7/8"	10"	6 oz.

IGNITION OPEN END WRENCHES

Every Wrench has the correct angle to perfectly fit the nuts for which it is engineered.

Part No.	Opening Size 15° Angle	Opening Size 60° Angle	Length	Wgt.
3114	13/64" x	15/64"	2 3/4"	1/2 oz.
3116	7/32" x	1/4"	2 3/4"	1/2 oz.
3118	15/64" x	13/64"	2 3/4"	1/2 oz.
3120	1/4" x	7/32"	3 1/16"	1/2 oz.
3122	17/64" x	19/64"	3 1/16"	1/2 oz.
3124	9/32" x	5/16"	3 9/16"	1/2 oz.
3128	5/16" x	9/32"	3 9/16"	1/2 oz.
3130	11/32" x	3/8"	3 3/4"	1/2 oz.
3132	3/8" x	11/32"	3 3/4"	1/2 oz.
3134	7/16" x	1/2"	4 3/8"	1/2 oz.

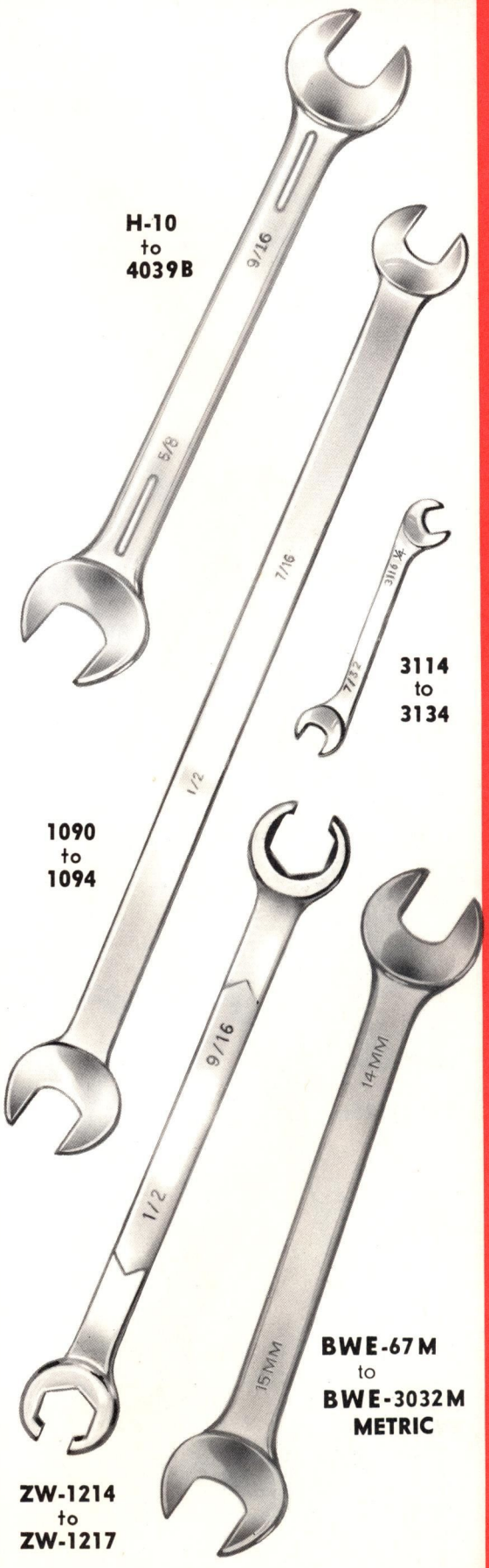
FLARE NUT WRENCHES

Useful in aviation, refrigeration, automotive and tractor work. These Wrenches prevent rounding off the corners and damaging soft brass flare nuts. The milled opening permits the Wrench to be slipped over copper tubing used on fuel, oil and vacuum lines.

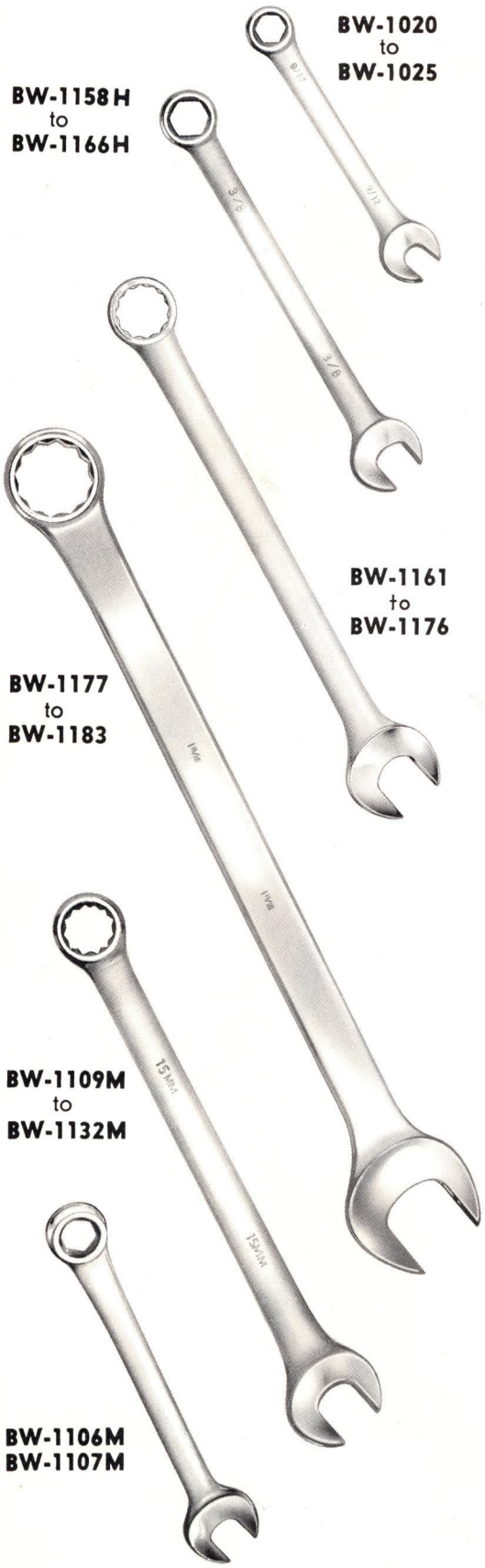
Part No.	Sizes	Length	Slots	Weight
ZW-1214	3/8"-7/16"	5 3/4"	3/16"-1/4"	2 oz.
ZW-1215	1/2"-9/16"	6 7/8"	5/16"-3/8"	3 oz.
ZW-1216	5/8"-11/16"	8"	7/16"-1/2"	4 oz.
ZW-1217	3/4"-7/8"	9"	9/16"-3/4"	8 oz.

METRIC OPEN END WRENCHES

Part No.	Size MM	Length	Wgt.	Part No.	Size MM	Length	Wgt.
BWE-67M	6x7	4 7/32"	1 oz.	BWE-1819M	18x19	8 9/16"	8 oz.
BWE-89M	8x9	4 11/16"	1 oz.	BWE-2022M	20x22	10"	11 oz.
BWE-1011M	10x11	5 9/32"	2 oz.	BWE-2123M	21x23	10 5/16"	12 oz.
BWE-1213M	12x13	5 7/8"	3 oz.	BWE-2426M	24x26	11"	15 oz.
BWE-1415M	14x15	7 1/8"	4 oz.	BWE-2732M	27x32	12"	24 oz.
BWE-1617M	16x17	7 13/16"	5 oz.	BWE-3032M	30x32	12"	24 oz.
BWE-1719M	17x19	8 9/16"	7 oz.				



Blackhawk™ HAND TOOLS



Every day more mechanics turn to this type of wrench. The same opening on each end makes it easy to work on square or hex nuts. Offset for maximum clearance.

6-POINT MINIATURE COMBINATION WRENCHES

Part No.	Size	Length	Weight
BW-1020	7/32" x 7/32"	3"	1 oz.
BW-1021	1/4" x 1/4"	3"	1 oz.
BW-1022	9/32" x 9/32"	3 1/2"	1 oz.
BW-1023	5/16" x 5/16"	3 1/2"	1 oz.
BW-1024	11/32" x 11/32"	4 3/16"	2 oz.
BW-1025	3/8" x 3/8"	4 3/16"	2 oz.

6-POINT COMBINATION WRENCHES

Part No.	Opening	Length	Weight
BW-1158H	5/16" x 5/16"	4 1/4"	2 oz.
BW-1160H	3/8" x 3/8"	5 1/8"	2 oz.
BW-1161H	7/16" x 7/16"	5 7/8"	2 oz.
BW-1162H	1/2" x 1/2"	6 5/8"	3 oz.
BW-1163H	9/16" x 9/16"	7 1/2"	4 oz.
BW-1164H	5/8" x 5/8"	8 3/8"	4 oz.
BW-1165H	11/16" x 11/16"	9 1/8"	6 oz.
BW-1166H	3/4" x 3/4"	10"	6 oz.

12-POINT COMBINATION WRENCHES

No.	Opening	Length	Wgt.
BW-1161	7/16" x 7/16"	5 7/8"	2 1/2 oz.
BW-1162	1/2" x 1/2"	6 5/8"	3 oz.
BW-1163	9/16" x 9/16"	7 1/2"	4 oz.
BW-1164	5/8" x 5/8"	8 3/8"	4 1/2 oz.
BW-1165	11/16" x 11/16"	9 1/8"	6 oz.
BW-1166	3/4" x 3/4"	10"	8 oz.
BW-1167A	13/16" x 13/16"	10 7/8"	9 oz.
BW-1167	7/8" x 7/8"	11 5/8"	10 oz.
BW-1168	15/16" x 15/16"	12 1/2"	13 oz.
BW-1170	1" x 1"	13 5/16"	14 oz.
BW-1171	1 1/16" x 1 1/16"	14 1/4"	16 oz.
BW-1172	1 1/8" x 1 1/8"	15"	17 oz.
BW-1173	1 1/4" x 1 1/4"	16 5/8"	18 oz.
BW-1174	1 5/16" x 1 5/16"	17 1/2"	19 oz.
BW-1175	1 3/8" x 1 3/8"	18 1/4"	19 oz.
BW-1176	1 7/16" x 1 7/16"	19 1/4"	20 oz.

LARGE 12-POINT COMBINATION WRENCHES

Large size combination wrenches for application on heavy duty equipment and industrial use.

Part No.	Openings	Length	Weight
BW-1177	1 1/2" x 1 1/2"	21 5/16"	3.0 lbs.
BW-1178	1 5/8" x 1 5/8"	22 3/4"	3.9 lbs.
BW-1179	1 11/16" x 1 11/16"	22 3/4"	3.8 lbs.
BW-1180	1 3/4" x 1 3/4"	26"	6.9 lbs.
BW-1181	1 13/16" x 1 13/16"	26"	6.7 lbs.
BW-1182	1 7/8" x 1 7/8"	26"	6.6 lbs.
BW-1183	2" x 2"	26"	6.4 lbs.

METRIC-SIZE COMBINATION WRENCHES

Part No.	Size Pt.	Size MM	Length	Wgt.	Part No.	Size Pt.	Size MM	Length	Wgt.
BW-1106M	6	6	2 3/4"	1 oz.	BW-1119M	12	19	10"	8 oz.
BW-1107M	6	7	3 1/2"	1 oz.	BW-1120M	12	20	10 3/4"	9 oz.
BW-1109M	6	9	4 5/16"	2 oz.	BW-1121M	12	21	10 7/8"	9 oz.
BW-1110M	12	10	5 1/8"	2 oz.	BW-1122M	12	22	11 5/8"	10 oz.
BW-1111M	12	11	5 7/8"	2 oz.	BW-1123M	12	23	12 3/8"	10 oz.
BW-1112M	12	12	6 5/8"	3 oz.	BW-1124M	12	24	12 3/8"	10 oz.
BW-1113M	12	13	6 5/8"	3 oz.	BW-1125M	12	25	13 1/4"	12 oz.
BW-1114M	12	14	7 1/2"	4 oz.	BW-1126M	12	26	13 1/4"	12 oz.
BW-1115M	12	15	8 3/8"	4 1/2 oz.	BW-1127M	12	27	14"	14 oz.
BW-1116M	12	16	8 3/8"	4 1/2 oz.	BW-1128M	12	28	14"	14 oz.
BW-1117M	12	17	9 1/8"	6 oz.	BW-1130M	12	30	15"	1 lb.
BW-1118M	12	18	9 1/4"	6 oz.	BW-1132M	12	32	15 1/2"	1.2 lbs.

BOX END WRENCHES

New design insures better fit of box on nut. Better working angle gives greater leverage.

DELUXE SHORT BOX ENDS, 15° 12-POINT

Drop forged for better balance and fit.

Part No.	Opening	Length	Wgt.
BW-1601	3/8" x 7/16"	4"	1 1/2 oz.
BW-1603	1/2" x 9/16"	4 3/4"	3 oz.
BW-1605	5/8" x 11/16"	5 1/2"	4 oz.

DELUXE LONG BOX ENDS, 15° 12-POINT

Drop forged from finest alloy steel. Carefully broached in twelve point. Smallest number of non-duplicating sizes gives complete range from 3/8" up to 1".

Part No.	Opening	Length	Wgt.
BW-1258	3/8" x 7/16"	7 5/8"	4 oz.
BW-1260	1/2" x 9/16"	8 1/2"	6 oz.
BW-1262	5/8" x 11/16"	9 9/16"	7 oz.
BW-1264	3/4" x 25/32"	10 5/16"	12 oz.
BW-1266	13/16" x 7/8"	12 1/8"	12 oz.
BW-1268	15/16" x 1"	12 1/4"	22 oz.

IGNITION BOX END WRENCHES

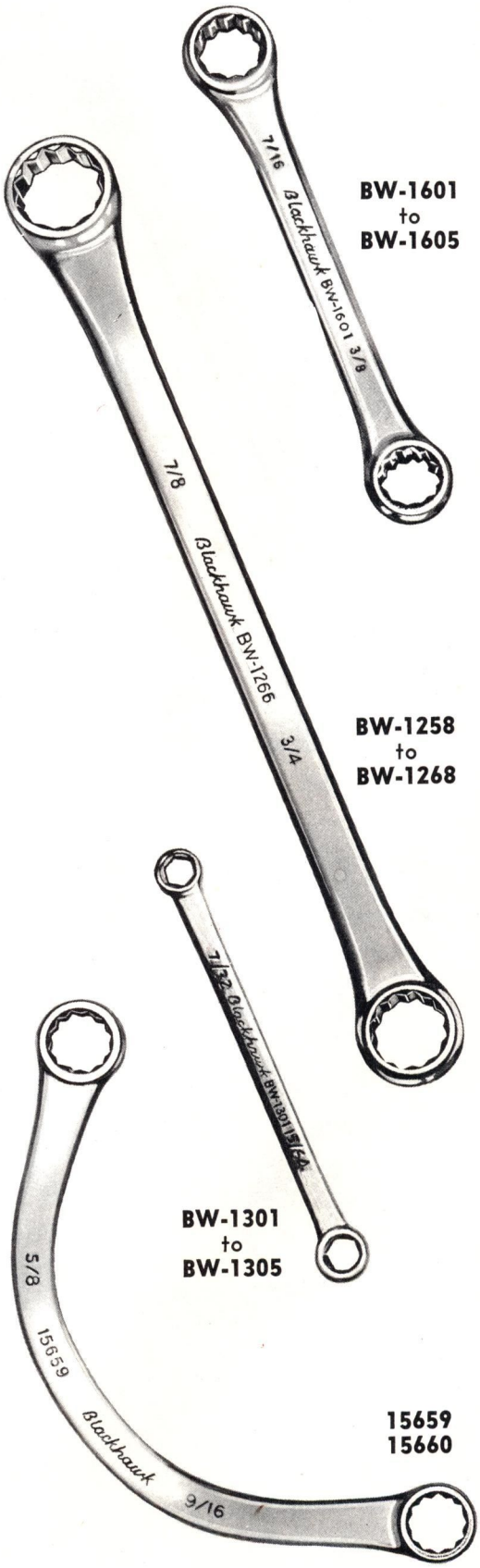
Mighty midgets for work on carburetors, starters, generators and electrical work in general.

Part No.	Opening	Length	Wgt.
BW-1301	3/16" x 13/64"	3"	1/2 oz.
BW-1302	7/32" x 15/64"	3 1/4"	1/2 oz.
BW-1304	1/4" x 9/32"	3 7/16"	1/2 oz.
BW-1305	5/16" x 11/32"	3 11/16"	1/2 oz.

HALF MOON BOX ENDS

Often referred to as Obstruction Wrenches, these Tools are rightly named. They actually will work around corners and they have many other uses, on such work as: manifolds, starters and carburetors.

Number	Size Openings	Length	Wgt.
15659	9/16" x 5/8"	7 3/4"	5 oz.
15660	11/16" x 3/4"	7 3/4"	5 oz.



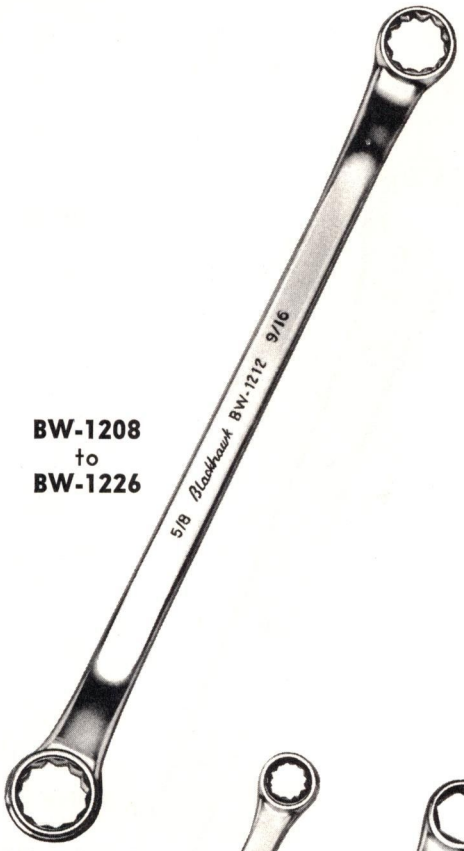
BW-1601 to BW-1605

BW-1258 to BW-1268

BW-1301 to BW-1305

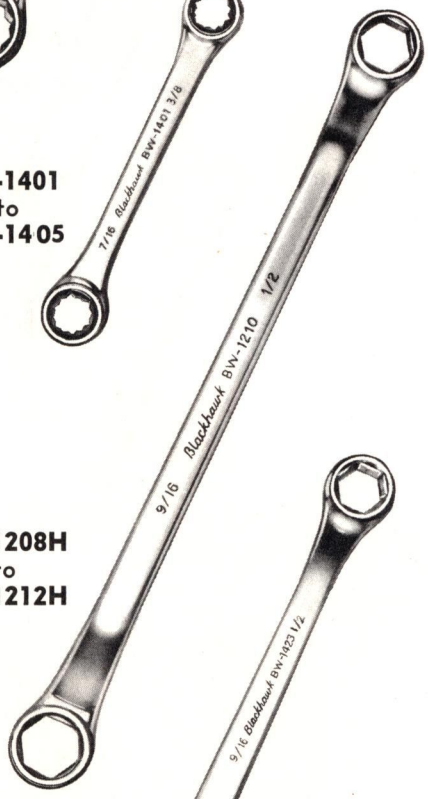
15659 15660

Blackhawk™ HAND TOOLS



BW-1208 to BW-1226

BW-1401 to BW-1405



BW-1208H to BW-1212H

BW-1421 to BW-1425

BOX END WRENCHES

These modern Wrenches have comfortable handles. Accurately broached openings — perfect balance, neat trim heads. Made from Alloy Steel for long rugged use. Triple plated chrome finish.

DELUXE LONG BOX ENDS, 45° 12-POINT

45° offset used for "hard to reach places."

Part No.	Opening	Length	Wgt.
BW-1208	3/8"x 7/16"	7 5/8"	4 oz.
BW-1210	1/2"x 9/16"	8 1/2"	6 oz.
BW-1212	5/8"x 11/16"	9 15/16"	7 oz.
BW-1214	3/4"x 25/32"	11 1/8"	12 oz.
BW-1216	13/16"x 7/8"	12 9/16"	18 oz.
BW-1218	15/16"x 1"	14 1/4"	22 oz.
BW-1220	1 1/16"x 1 1/8"	15 1/2"	22 oz.
BW-1222	1 1/4"x 1 5/16"	17 5/8"	2 3/8 lbs.
BW-1224	1 1/4"x 1 3/8"	18 1/2"	2 1/2 lbs.
BW-1226	1 7/16"x 1 5/8"	23 1/4"	4 lbs.

DELUXE SHORT BOX ENDS, 45° 12-POINT

Part No.	Opening	Length	Net Wgt. Each
BW-1401	3/8"x 7/16"	4 1/2"	1 1/2 oz.
BW-1403	1/2"x 9/16"	5 3/16"	3 oz.
BW-1405	5/8"x 11/16"	6"	4 oz.

6-POINT 45° LONG BOX END WRENCHES

Part No.	Openings	Length	Weight
BW-1208H	3/8" x 7/16"	7 5/8"	3 oz.
BW-1210H	1/2" x 9/16"	8 1/2"	6 oz.
BW-1212H	5/8" x 11/16"	9 15/16"	7 oz.

6-POINT 45° SHORT BOX END WRENCHES

Part No.	Openings	Length	Weight
BW-1421	3/8" x 7/16"	4 1/2"	1 oz.
BW-1423	1/2" x 9/16"	5 3/16"	3 oz.
BW-1425	5/8" x 11/16"	6"	4 oz.

MINIATURE OPEN-END WRENCH SET

Part No.	Size	Part No.	Size
H-10	3/16" x 7/32"	H-16	3/8" x 7/16"
H-12	1/4" x 9/32"	H-18	13/32" x 15/32"
H-14	5/16" x 11/32"	EW-20K	Plastic Kit

Set No. EW-20 5-Piece Set — Wgt. 6 oz.

OPEN-END SET

Part No.	Openings	Part No.	Openings
4020	1/4" x 5/16"	4729	5/8" x 3/4"
4723	3/8" x 7/16"	4731B	13/16" x 7/8"
4725B	1/2" x 9/16"	EW-105K	Plastic Kit

Set No. EW-105 5-Piece Set — Wgt. 1 lb. 5 oz.

OPEN-END SET

Part No.	Openings	Part No.	Openings
4020	1/4" x 5/16"	4033C	15/16" x 1"
4723	3/8" x 7/16"	4729	5/8" x 3/4"
4725B	1/2" x 9/16"	4731A	3/4" x 7/8"
4027	19/32" x 11/16"	EW-108K	Plastic Kit
4031B	25/32" x 13/16"		

Set No. EW-108 8-Piece Set — Wgt. 5 lb. 2 oz.

OPEN-END SET

Part No.	Openings	Part No.	Openings
4020	1/4" x 5/16"	4731A	3/4" x 7/8"
4723	3/8" x 7/16"	4033C	15/16" x 1"
4725B	1/2" x 9/16"	4735A	1 1/16" x 1 1/8"
4727	9/16" x 5/8"	4039B	1 1/4" x 1 5/16"
4027	19/32" x 11/16"	EW-109K	Plastic Kit

Set No. EW-109 9-Piece Set — Wgt. 5 lb. 2 oz.

TAPPET WRENCH SET

Part No.	Openings	Part No.	Openings
(2)1090G	7/16" x 17/32"	(2)1092F	5/8" x 11/16"
(2)1090D	1/2" x 9/16"	(2)1094	3/4" x 7/8"
		EW-11K	Plastic Kit

Set No. EW-11 8-Piece Set — Wgt. 2 lb. 3 oz.

OPEN-END SET

Part No.	Openings	Part No.	Openings
4020	1/4" x 5/16"	4729	5/8" x 3/4"
4721	5/16" x 3/8"	4731	3/4" x 13/16"
4723	3/8" x 7/16"	4731A	3/4" x 7/8"
4725	7/16" x 1/2"	4033C	15/16" x 1"
4725B	1/2" x 9/16"	4735A	1 1/16" x 1 1/8"
4727	9/16" x 5/8"	4039B	1 1/4" x 1 5/16"
4027	19/32" x 11/16"	EW-113K	Plastic Kit

Set No. EW-113 13-Piece Set — Wgt. 6 lb. 4 oz.

FLARE NUT WRENCH KIT

Three popular size Flare Nut Wrenches in a handy plastic pouch. These wrenches prevent rounding off corners and damaging soft brass flare nuts.

Number	Openings	Weight of Kit
ZW-1214	3/8" x 7/16"	1/2 lb.
ZW-1215	1/2" x 9/16"	
ZW-1216	5/8" x 11/16"	
ZW-71K	Plastic Kit	

Set No. ZW-71 — 3 Piece Set

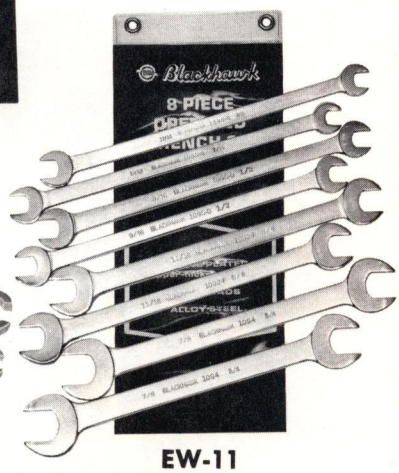
EW-105

EW-20

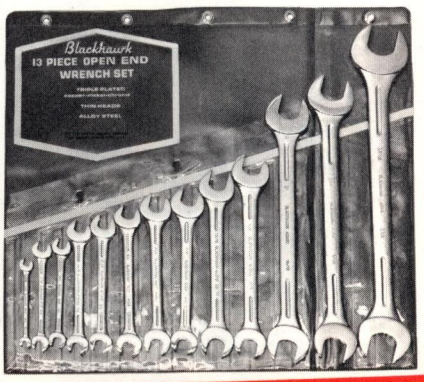
EW-109

EW-108

ZW-71



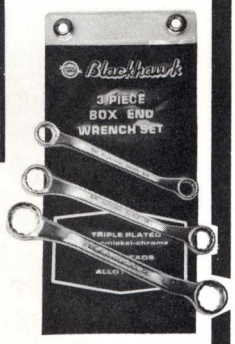
EW-11



EW-113

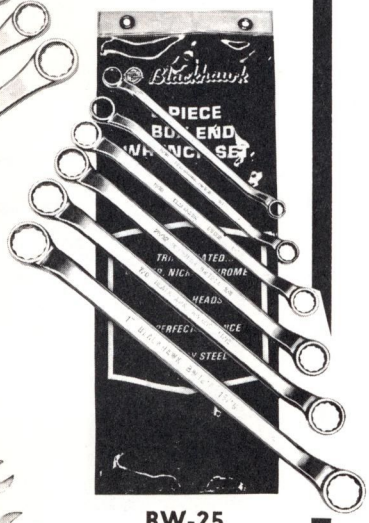
Blackhawk™ HAND TOOLS

EW-40



BW-27

BW-26



BW-25

BW-24

BW-23

BW-18

10-PIECE — IGNITION OPEN END WRENCH SET

	15° Angle	60° Angle		15° Angle	60° Angle
3114	13/64"	15/64"	3124	9/32"	5/16"
3116	7/32"	1/4"	3128	5/16"	9/32"
3118	15/64"	13/64"	3130	11/32"	3/8"
3120	1/4"	7/32"	3132	3/8"	11/32"
3122	17/64"	19/64"	3134	7/16"	1/2"

EW-40K Plastic Kit

Set No. EW-40 10-Piece Set — Wgt. 8 oz.

SHORT 45° 12-POINT BOX WRENCH SET

Part No.	Openings	Part No.	Openings
BW-1401	3/8" x 7/16"	BW-1405	5/8" x 11/16"
BW-1403	1/2" x 9/16"	BW-27K	Plastic Kit

Set No. BW-27 3-Piece Set — Wgt. 11 oz.

LONG 15° BOX WRENCH SET

Part No.	Openings	Part No.	Openings
BW-1258	3/8" x 7/16"	BW-1264	3/4" x 25/32"
BW-1260	1/2" x 9/16"	BW-1266	13/16" x 7/8"
BW-1262	5/8" x 11/16"	BW-1268	15/16" x 1"
		BW-26K	Plastic Kit

Set No. BW-26 6-Piece Set — Wgt. 3 lb.

LONG 45° BOX WRENCH SET

Part No.	Openings	Part No.	Openings
BW-1208	3/8" x 7/16"	BW-1214	3/4" x 25/32"
BW-1210	1/2" x 9/16"	BW-1216	13/16" x 7/8"
BW-1212	5/8" x 11/16"	BW-1218	15/16" x 1"
		BW-25K	Plastic Kit

Set No. BW-25 6-Piece Set — Wgt. 2 lb. 6 oz.

COMBINATION SET

Part No.	Openings	Part No.	Openings
BW-1161	7/16"	BW-1163	9/16"
BW-1162	1/2"	BW-1164	5/8"
		BW-24K	Plastic Kit

Set No. BW-24 4-Piece Set — Wgt. 13 oz.

MINIATURE COMBINATION WRENCH SET

Part No.	Size	Part No.	Size
BW-1020	7/32"	BW-1023	5/16"
BW-1021	1/4"	BW-1024	11/32"
BW-1022	9/32"	BW-1025	3/8"
		BW-23K	Plastic Kit

Set No. BW-23 6-Piece Set — Wgt. 6 oz.

COMBINATION SET

Part No.	Openings	Part No.	Openings
BW-1161	7/16"	BW-1164	5/8"
BW-1162	1/2"	BW-1165	11/16"
BW-1163	9/16"	BW-1166	3/4"
		BW-18K	Plastic Kit

Set No. BW-18 6-Piece Set — Wgt. 1 lb. 7 oz.

COMBINATION WRENCH SET

Part No.	Openings	Part No.	Openings
BW-1021	1/4"	**BW-1162**	1/2"
BW-1023	5/16"	**BW-1163**	9/16"
BW-1025	3/8"	**BW-1164**	5/8"
BW-1161	7/16"	**BW-22K**	Plastic Kit

Set No. BW-22 7-Piece Set — Wgt. 1 lb. 1 oz.

COMBINATION SET

Part No.	Size	Part No.	Size
BW-1158H	5/16"	**BW-1163H**	9/16"
BW-1160H	3/8"	**BW-1164H**	5/8"
BW-1161H	7/16"	**BW-1165H**	11/16"
BW-1162H	1/2"	**BW-1166H**	3/4"
		BW-8K	Plastic Kit

Set No. BW-8 8-Piece Set — Wgt. 1 lb. 14 oz.

COMBINATION SET

Part No.	Openings	Part No.	Openings
BW-1025	3/8"	**BW-1165**	11/16"
BW-1161	7/16"	**BW-1166**	3/4"
BW-1162	1/2"	**BW-1167**	7/8"
BW-1163	9/16"	**BW-1168**	15/16"
BW-1164	5/8"	**BW-21K**	Plastic Kit

Set No. BW-21 9-Piece Set — Wgt. 6 lb. 4 oz.

COMBINATION SET

Part No.	Openings	Part No.	Openings
BW-1023	5/16"	**BW-1166**	3/4"
BW-1025	3/8"	**BW-1167A**	13/16"
BW-1161	7/16"	**BW-1167**	7/8"
BW-1162	1/2"	**BW-1168**	15/16"
BW-1163	9/16"	**BW-1170**	1"
BW-1164	5/8"	**BW-1171**	1 1/16"
BW-1165	11/16"	**BW-20K**	Plastic Kit

Set No. BW-20 13-Piece Set — Wgt. 6 lb. 4 oz.

METRIC COMBINATION SET

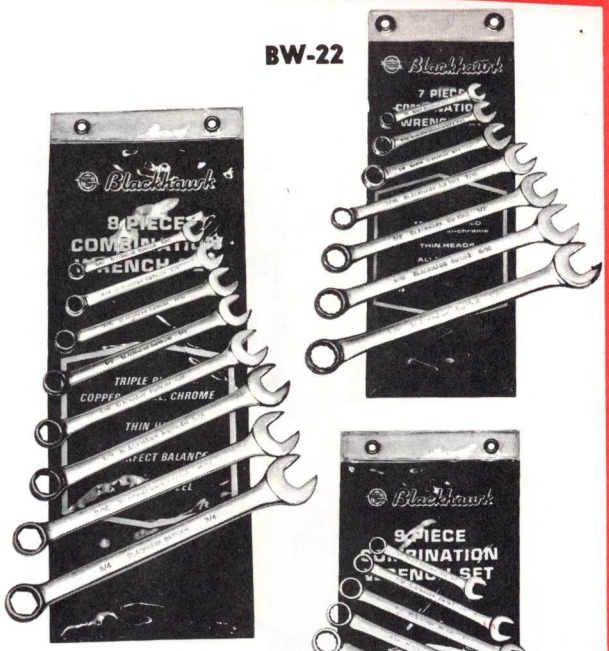
Including the five most popular sizes (10-11-12-14-15 MM) this carded set is ideal for foreign autos, bikes, motorcycles and snowmobiles. Wrenches are drop forged of alloy steel and triple plated chrome. Hang it on your mini tool center.

Part No.		Wgt.
BW-35	5 Piece Set	1 lb.

METRIC COMBINATION SET

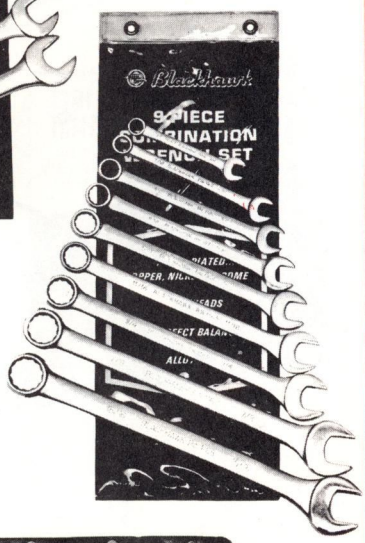
Part No.	Size MM	Part No.	Size MM
BW-1109M	9	**BW-1114M**	14
BW-1110M	10	**BW-1117M**	17
BW-1111M	11	**BW-1119M**	19
BW-1112M	12	**BW-37K**	Plastic Kit

Set No. BW-37 7-Piece Set — Wgt. 1 lb. 6 oz.



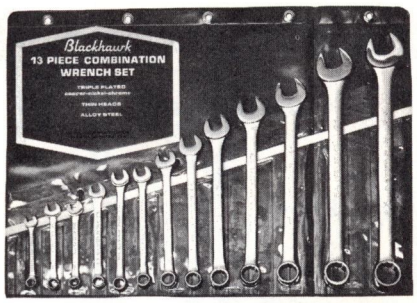
BW-22

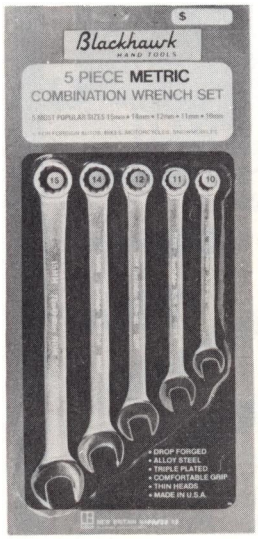
BW-8



BW-21

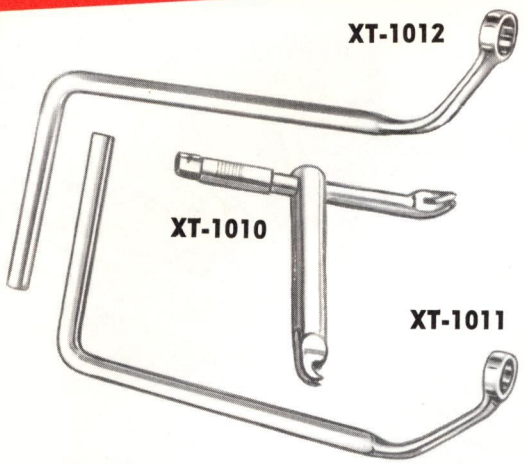
BW-20





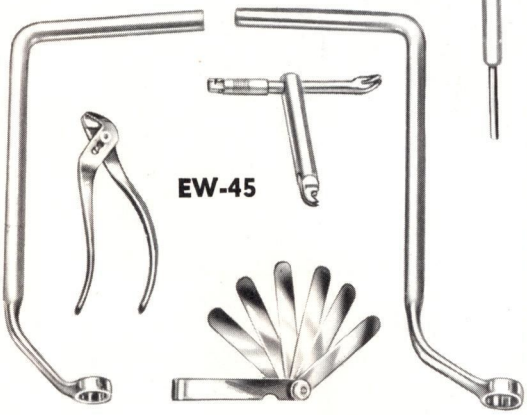
BW-35

BW-37

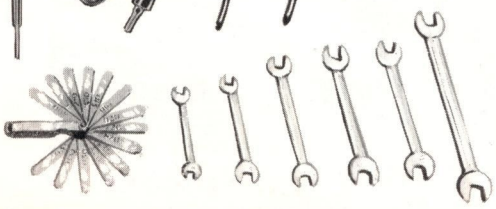


XT-1014

ZT-1815 XT-1014-1



EW-23



MIDGET IGNITION TOOLS

Blackhawk Ignition Tools are of perfect balance and designed for delicate work on magnetos, generators, carburetors, electrical parts — wherever fine work is important.

POINT BENDER

Universal Point aligning tool designed to handle all makes including Ford except heavy duty Delco stationary points.

Number	Wgt.
XT-1010	4 oz.

1/2" DISTRIBUTOR WRENCH

Specially designed distributor wrench for those "hard to get at" distributor clamp studs. Fits Cadillac, and all Chrysler Corporation cars.

Number	Wgt.
XT-1011	4 oz.

9/16" DISTRIBUTOR WRENCH

Distributor wrench for Chevrolets, Buicks, Pontiacs and Oldsmobiles.

Number	Wgt.
XT-1012	5 oz.

REMOTE STARTER SWITCH

Completely shockproof and 4½ feet long, this durable, rubber insulated Extension permits the mechanic to start the car engine while working under the hood or on a creeper — saves time and trouble by eliminating the need for a helper when testing compression, vacuum or fuel pump.

Number	Length	Wgt.
ZT-1815	4½ feet	12 oz.

DISTRIBUTOR-CARBURETOR ADJUSTING TOOL

The ⅛" hex bit is used for Delco-Remy external adjustment distributors. The non-slip screw driver adapter with covering sleeve is used to adjust carburetors where obstructions hamper visual observation or use of regular screw driver. Constructed of special "Non-Kink" flexible steel shaft — shockproof plastic handle — specially hardened steel bit — all for long rugged wear.

Number		Wgt.
XT-1014	Complete Tool	4 oz.
XT-1014-1	Carburetor Socket	

5-PIECE IGNITION SET

A handy Ignition Set for general use. Packed in fibre box.

XT-1010 Point Bender
XT-1011 ½" Distributor Wrench
XT-1012 9/16" Distributor Wrench
MT-1055 Feeler Gauge
PT-1251 Ignition Plier

Number		Wgt.
EW-45	5-Piece Set	2 lbs.

11-PIECE IGNITION SET

MT-1041 Feeler Gauge
ET-3000 Electric Tester
ST-1214 Spark Plug Testing Screw Driver
PT-1251 Ignition Pliers
FT-1001 Contact File

Open End Wrenches

H-10 3/16" x 9/32"
H-12 ¼" x 9/32"
H-14 5/16" x 11/32"
H-16 ⅜" x 7/16"
H-18 13/32" x 15/32"
4725 7/16" x ½"

No.		Weight
EW-23	11-Piece Set	1 lb. 7 oz.

ELECTRIC TESTER

Locating breaks and shorts in electric circuits is always a time consuming job that does not pay big returns. Simply attaching ground clip to car and with needle point, test the circuit. If circuit is OK, bright light glows in plastic handle of Tester. Point is sharp enough to push through insulation of cable. Use Tester on batteries, ignition timing, around circuits of lamps, switches, head, tail, stop and dome lights, starter coils or any place that you are looking for electrical trouble. Can also be used on radio and similar circuits. Complete with four foot lead wire and insulated spring grounding clip.

ET-3000 4 oz. **ET-3000-1** Bulb only

IMPROVED AUDIOSCOPE

An improved sensitive mechanic's stethoscope for locating trouble spots. Detects sounds not normally heard in moving parts such as bearing knocks, piston slaps, noisy valves, rear end noises, body squeaks, distributor bearings, vacuum leaks, air leaks and water pump squeaks.

ET-3010 8 oz.

SNAP-GAP POINT SETTING TOOL

This precision kit facilitates the quick and accurate setting of points for nearly every car since 1946 without the necessity of removing the distributor or rotating the engine. The Snap-Gap micro-precision ring converts the distributor cam into a perfect circle eliminating all need to adjust cam position. It aids in point adjustment where distributors are hard to reach and will also permit setting of dual points in one operation.

SET CONTAINS

EW-48A For Autolite "8" and Holly (Ford) "8"
EW-48B For Delco "8" and Autolite "8"
EW-48C For Autolite "4" and "6"
EW-48D For Holly (Ford) "6"
EW-48E For Delco "6" **EW-48F** Feeler Gauge

Number **EW-48** Snap Gap Set

IGNITION POINT FILE

Especially double cut for all types of ignition points. No. FT-1003 has handle end turned to form pocket clip. No. FT-1004 formed with flat handle.

FT-1003	5½"	1 oz.
FT-1004	5½"	1 oz.

IGNITION POINT FILE DISPLAY

These cards displaying 12 No. FT-1004 Files sell on sight. Every garage doing ignition work needs a supply of these double cut Files. Guaranteed to file tungsten.

FT-1001 6½" x 9" 6 oz.

BATTERY LIFTERS

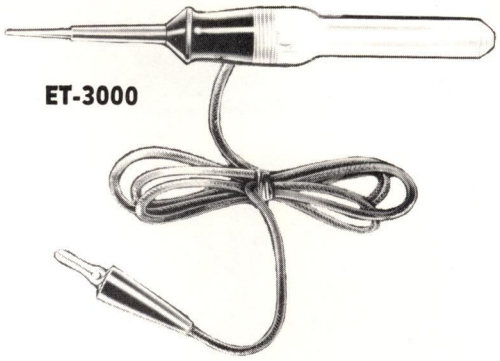
Its unique construction guarantees a firm grip automatically on any terminal post whether new or old. The strap is resistant to battery acids and it will give long and satisfactory service.

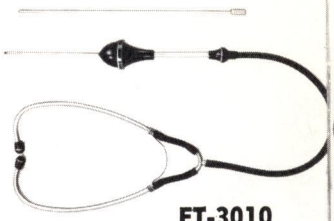
ZT-1601	Short Battery Lifter	4 oz.
ZT-1602	Long Battery Lifter	6 oz.

BATTERY LIFTERS

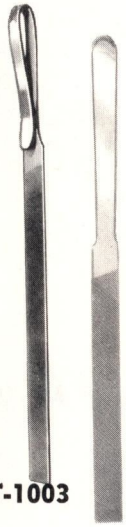
The one safe, sure carrier for all batteries. Easily removes and replaces batteries with and without terminal posts. One size instantly adjusts to fit all car batteries. Grips securely without damage to battery.

ZT-1604 1¾" lbs.

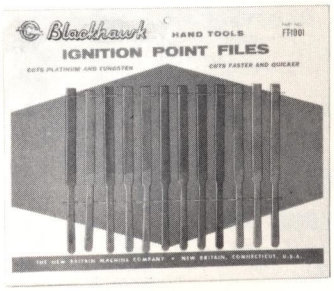

ET-3000


ET-3010

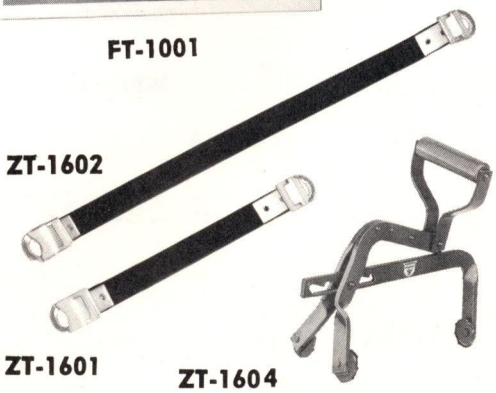
EW-48


FT-1003

FT-1004



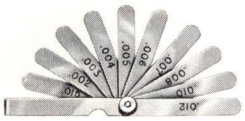
FT-1001

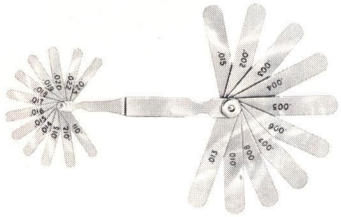

ZT-1602

ZT-1601

ZT-1604

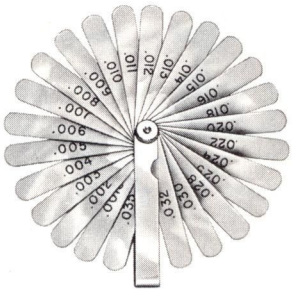
MT-1048

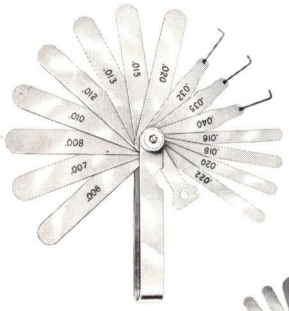




MT-1047

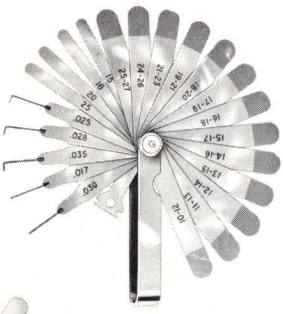
MT-1049

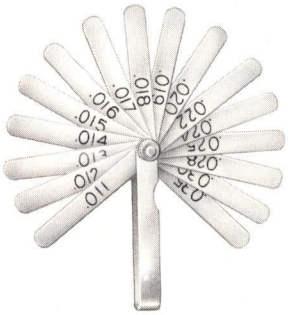




MT-1044

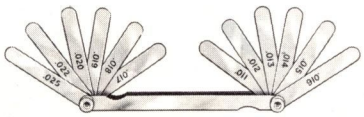
MT-1039





MT-1041

MT-1042



FEELER GAUGES

Blackhawk Feeler Gauges include every size and type for accurate work on spark plug gaps, distributor and ignition points and tappet adjustments. They are manufactured from the finest quality Swedish Steel to guarantee continued accuracy.

STANDARD FEELER GAUGE

Contains ten 3 5/16" x 1/2" blades of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012 and .015.

Number	Wgt.
MT-1048	2 oz.

COMBINATION VALVE AND IGNITION FEELER GAUGE

Contains ten 3" x 1/2" blades on one end, of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, .015; and twelve 1 3/4" x 1/4" blades on the other end, of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022 and .025.

Number	Wgt.
MT-1047	4 oz.

ALL PURPOSE FEELER GAUGE

Contains twenty-five 3 5/16" x 1/2" blades of the following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032 and .035.

Number	Wgt.
MT-1049	3 oz.

CHEVROLET FEELER GAUGE

Contains eight 3 5/16" x 1/2" regular blades in the following sizes: .006, .007, .008, .010, .012, .013, .015, .020. Four 3 5/16" x 1/4" Ignition Blades: .016, .018, .020, .022. Three 90° offset wire blades: .032, .035, .040. One electrode bending tool.

Number	Wgt.
MT-1044	2 oz.

FORD FEELER GAUGE

Contains thirteen step-ground 3 5/16" x 1/2" Go-No-Go blades of the following thicknesses: .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .021-.023, .024-.026, .025-.027.
Four 3 5/16" x 1/4" Ignition Blades, .015, .016, .020, .025.
Three 90° offset wire blades: .025, .028, .035.
Two straight wire blades: .017, .030.
One electrode bending tool.

Number	Wgt.
MT-1039	2 oz.

FEELER GAUGE

Services Domestic and Foreign Cars

Contains sixteen 1 3/4" x 1/4" blades of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032.

Number	Wgt.
MT-1041	1 oz.

IGNITION FEELER GAUGE

Contains twelve 1 3/4" x 1/4" blades of the following thicknesses .011, .012, .013, 0.14, .015, .016, .017, .018, .019, .020, .022 and .025.

Number	Wgt.
MT-1042	2 oz.

15-BLADE GO-NO-GO GAUGE

Contains fifteen 3 5/16" x 1/2" blades of following thicknesses: .006-.008, .007-.009, .008-.010, .009-.011, .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .020-.022.

Number	Wgt.
MT-1043	1 oz.

REGULAR SPARK PLUG WIRE GAUGE

Consists of 1 electrode bender and 8 wire gauges sizes: .022, .025, .028, .030, .032, .035, .038 .040.

MT-1040 1 oz.

BRAKE ADJUSTING FEELER GAUGE

Contains nine 4" x 1/4" blades in the following thicknesses for checking brake clearances: .002, .004, .005, .006, .007, .008, .010, .012, .015.

MT-1045 2 oz.

PISTON FEELER GAUGE

Contains eight 9" x 1/2" blades of the following thicknesses: .002, .003, .004, .005, .006, .008, .010 and .015.

MT-1046 3 oz.

COMBINATION O.H.V. GAUGE

Contains seven 3 5/16" x 1/2" blades with 45° offset of the following thicknesses: .018, .019, .020, .021, .024, .025, .026 and four straight 3 5/16" x 1/2" in the following thicknesses: .015, .016, .018 and .019. This gauge especially useful on Ford, Mercury and Studebaker motors.

MT-1052 7 1/8" 2 oz.

NON-MAGNETIC FEELER GAUGE

Specially designed for adjusting the magnetic pickup on new Chrysler systems. Contains five blades; .004 (10 MM), .006 (15 MM), .008 (20 MM), .010 (25 MM), and .012 (30 MM).

MT-1020 3 5/8" 1 oz.

IGNITION FEELER GAUGE

Contains 7 sizes — 3 1/4" long: .013; .015; .016; .017; .020; .022; .025 — 7 units.

MT-1055 1 oz.

FEELER GAUGE BLADE HOLDER

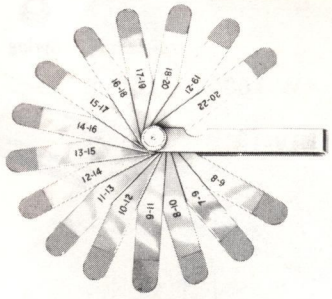
Made to handle separate feeler blades, easily and without damage. Metal slide ferrule clamps blade firmly. Different blades can be inserted in seconds. Blades listed below.

MT-1036 Single Blade Holder 1/2 oz.

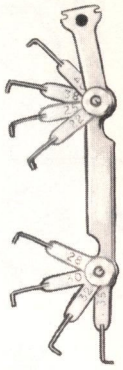
FEELER GAUGE BLADES

Made of Swedish Steel in 12" lengths for use in above Holders. Blades plainly marked. Have hole in end so that by inserting bolt, you can make up set as desired.

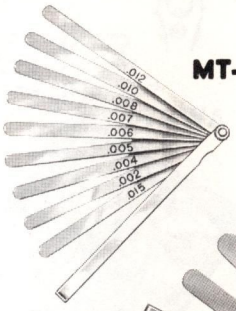
MT-1001	.0015	**MT-1011**	.011	**MB-1021**	.021
MT-1002	.002	**MT-1012**	.012	**MB-1022**	.022
MT-1003	.003	**MT-1013**	.013	**MB-1025**	.025
MT-1004	.004	**MT-1014**	.014	**MB-1027**	.027
MT-1005	.005	**MT-1015**	.015	**MB-1028**	.028
MT-1006	.006	**MB-1016**	.016	**MB-1030**	.030
MT-1007	.007	**MB-1017**	.017	**MB-1032**	.032
MT-1008	.008	**MB-1018**	.018	**MB-1035**	.035
MT-1009	.009	**MB-1019**	.019	**MB-1040**	.040
MT-1010	.010	**MB-1020**	.020		



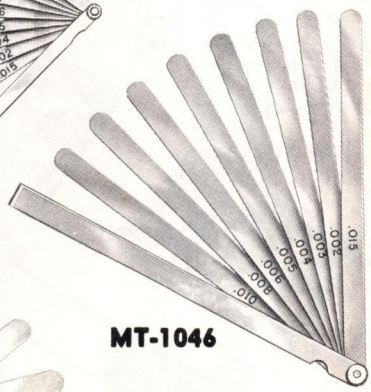
MT-1043



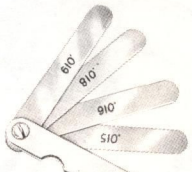
MT-1040



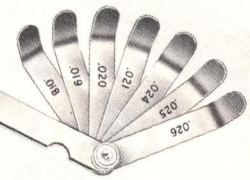
MT-1045

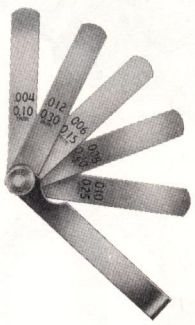


MT-1046



MT-1052

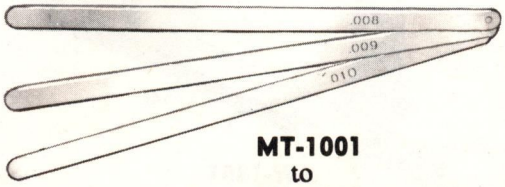




MT-1020

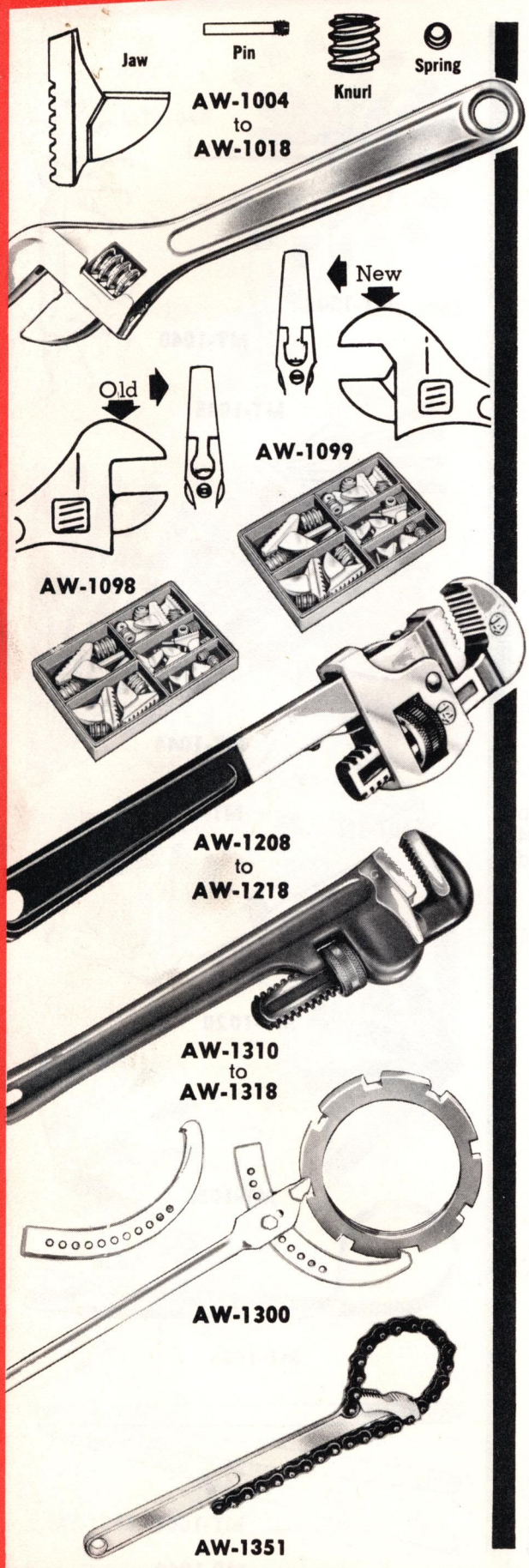
MT-1055

MT-1036



MT-1001 to MB-1040

Blackhawk™ HAND TOOLS



ADJUSTABLE WRENCHES

If you have used Adjustable Wrenches for a long time, you will appreciate this new improved Wrench. The jaws are not only non-slip in their hold on the nut, but due to their extreme thinness, they can be used in many places where other Wrenches will not enter. 22½° Angle.

Number	Size	Capacity	Thickness of Head	Tip of Jaw	Wgt.
AW-1004	4"	1/2"	5/16"	1/8"	2 oz.
AW-1006	6"	3/4"	13/32"	7/32"	4 oz.
AW-1008	8"	15/16"	15/32"	1/4"	8 oz.
AW-1010	10"	1 1/8"	9/16"	3/8"	14 oz.
AW-1012	12"	1 5/16"	3/4"	17/32"	1 lb. 8 oz.
AW-1015	15"	1 3/4"	31/32"	19/32"	2 lbs. 4 oz.
AW-1018	18"	2 1/16"	1 3/16"	23/32"	2 lb. 10 oz.

REPLACEMENT PARTS

Assortment of Replacement Parts for Adjustable Wrenches as listed in table below. Packed in sturdy box.

No. AW1099 (old style) **No. AW1098** (new style)

Wrench Size	Jaws	Knurls	Pins	Springs
4"	4	4	4	4
6"	6	6	6	6
8"	6	6	6	6
10"	4	4	4	4
12"	2	2	2	2

STILLSON WRENCHES

An improved type of Pipe Wrench completely drop forged. Engineered for heavy duty work. On many jobs nothing will perform so well as a Stillson Wrench and no wrench will give a firmer grip or stand a harder pull than a Blackhawk Stillson Wrench. Made in Spain

Number	Size	Capacity	Wgt.
AW-1208	8"	3/4"	11 oz.
AW-1210	10"	1"	1 lb. 8 oz.
AW-1214	14"	1 1/2"	2 lb. 10 oz.
AW-1218	18"	2"	4 lb.

PIPE WRENCHES Heavy Duty Type

This Heavy Duty Pipe Wrench is made of pearlitic malleable alloy steel. Scientifically designed for maximum strength and safety with minimum amount of weight. Precision milled teeth, replaceable lower jaw. Made in Spain

Number	Sizes	Capacity	Weight
AW-1310	10"	1/8"-1 1/2"	2 lbs.
AW-1314	14"	1/4"- 2"	3 1/2 lbs.
AW-1318	18"	1/4"-2 1/2"	5 1/4 lbs.

ADJUSTABLE SPANNER WRENCH

Replaces 30 or 40 fixed size spanner wrenches. Two hooks and one handle are furnished. One hook is 3/4" thick to handle heavy turret nuts. The other is 3/8" thick for thin adjusting nuts. Both have 11 adjustments. Excellent for all tractor and heavy duty work.

No.	Length	Weight
AW-1300	23"	12 lb.

UNIVERSAL CHAIN WRENCH

If you need to get a firm, slip-proof grip on round, hexagonal or square material, this Chain Wrench will do it. No matter what the shape is, it is held in a vise like grip. Excellent for all maintenance work, for steamfitters, plumbers and well drillers. It's an all purpose wrench. Handle made of forged steel, chain is heavy double link that will take tremendous torque.

Number	Capacity	Length	Weight
AW-1351	5/8" to 4 1/2"	11 1/2"	1 lb. 12 oz.

MODULATOR WRENCH

A sensational new wrench specially designed for easy removal and installation of vacuum modulator control units on GM and Ford automatic transmissions. Fits around frame rails, exhaust pipes and speedometer cables. Handles the three most popular size modulators; one double end for 7/8" and 1" modulators and a single end, 3/4" for the majority of Ford modulators.

Number	Size	Weight
ZW-1250	7/8" x 1" x 3/4"	6 oz.

LEVER JAW WRENCHES

The patented FINGERTIP release opens wrench instantly, no matter how tightly locked to the work — with just the pressure of a fingertip. Exerts over 1000 lbs. of pressure at heat-treated, forged jaws.

ZW-1116	8 1/2"	12 oz.
ZW-1120	10"	1 lb. 4 oz.

RATCHETING BOX WRENCH

Convenient for use on long studs and in tight spaces, this heat treated Alloy Steel Wrench is practical for nuts which can not be reached with sockets.

Number	Size	Opening	Length	Wgt.
ZW-1042	1/4" x 5/16"	6 Pt.	4 1/4"	2 oz.
ZW-1044	3/8" x 7/16"	6 Pt.	5 1/2"	3 oz.
ZW-1046	1/2" x 9/16"	6 Pt.	6 3/4"	6 oz.
ZW-1068	5/8" x 11/16"	12 Pt.	8"	10 oz.
ZW-1069	5/8" x 3/4"	12 Pt.	8"	10 oz.
ZW-1070	3/4" x 7/8"	12 Pt.	9 1/4"	12 oz.

HEX KEY WRENCHES

Since the widespread use of hollow head cap screws and set screws it becomes necessary to have a complete set of these Hex Key Wrenches. Used on all types of industrial and automotive equipment. Ends accurately shaped to fit screw. Wrenches are tough enough to loosen tightest screws.

Number	Size	Long Arm	Wgt.	Number	Size	Long Arm	Wgt.
ZW-1002	1/16	1 3/4	1/2 oz.	ZW-1009	1/4	3 1/4	2 oz.
ZW-1003	5/64	1 7/8	1/2 oz.	ZW-1010	5/16	3 3/4	2 oz.
ZW-1004	3/32	2	1/2 oz.	ZW-1011	3/8	4 1/4	2 oz.
ZW-1005	1/8	2 1/4	1/2 oz.	ZW-1013	1/2	5 1/4	3 oz.
ZW-1006	5/32	2 1/2	1 oz.	ZW-1014	9/16	5 3/4	4 oz.
ZW-1007	3/16	2 3/4	1 oz.	ZW-1015	5/8	6 1/4	5 oz.
ZW-1008	7/32	3	1 oz.	ZW-1016	3/4	7 1/4	6 oz.

HEX KEY WRENCH SET

Consists of the first 10 wrenches listed above. Complete range of wrenches for greatest utility are offered in this set. Contained in handy plastic case.

Number	Wgt.
ZW-58	6 oz.
ZW-58K Kit	

7 PIECE METRIC HEX KEY WRENCH SET

Set contains 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm and 8mm Metric Hex Key Wrenches, plus reusable vinyl pouch. Ends are accurately shaped to fit screws; wrenches are rugged enough to loosen tighest screws.

Number	
ZW-60	2 MM 2.5 MM 3 MM 4 MM 5 MM 6 MM 8 MM

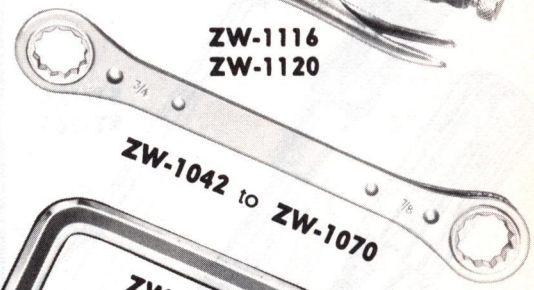
HANDY HEX KEY WRENCH SET

A dandy tool to have on hand because in one small case you have 7 of the most popular Hex Key Wrenches.

Number	sizes: .050", 1/16", 5/64", 3/32", 1/8", 5/32", and 3/16".	Weight
ZW-1018		4 oz.

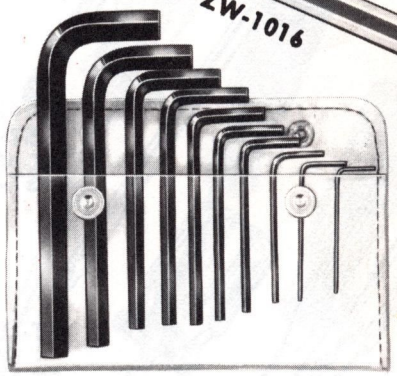
ZW-1250

ZW-1116
ZW-1120

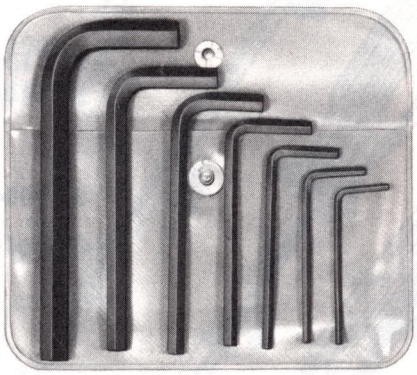


ZW-1042 to ZW-1070

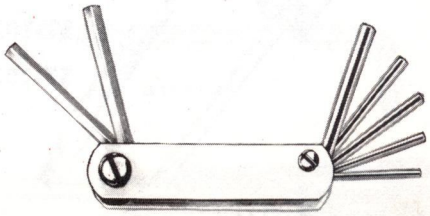
ZW-1002 to ZW-1016



No. ZW-58



ZW-60



ZW-1018

STANDARD BLADE—WOOD HANDLE

A general purpose screw driver of exceptional strength and utility. Appreciated by the mechanic who wants a good quality tool to turn screws with, and not to use as a cold chisel or pry bar.

Number	Size of Blade	Width of Tip	Overall	Wgt.
ST-164	4"	1/4"	9"	2 oz.
ST-166	6"	5/16"	11 3/4"	4 oz.

PHILLIPS SPECIAL ALLOY BLADE

Equipped with fine clear maple handles for a good solid grip. Yet the blades are made from the finest alloy steel to insure a tight grip that will not slip.

Number	Phillips Screw Size	Blade Length	Wgt.
ST-91	No. 1 Pt.	3"	1 oz.
ST-92	No. 2 Pt.	4"	2 oz.
ST-93	No. 3 Pt.	6"	4 oz.

PHILLIPS SCREW DRIVER—PLASTIC HANDLE

The Phillips type, equipped with new patented exclusive handle design of extruded plastic. Extension of blade well into handle assures maximum torque.

Number	Phillips Screw Size	Bar Length	Wgt.
ST-1081	No. 1 Pt.	3"	2 oz.
ST-1082	No. 2 Pt.	4"	3 oz.
ST-1083	No. 3 Pt.	6"	5 oz.
ST-1084	No. 4 Pt.	8"	8 oz.
ST-1090	No. 2 Pt.	20"	8 oz.

STUBBY PHILLIPS SCREW DRIVERS

These extruded plastic handle Stubby Phillips are designed for work where space is limited. Overall length only 3 3/8"

Number	Phillips Screw Size	Blade Length	Wgt.
ST-1139	No. 1 Pt.	1"	2 oz.
ST-1140	No. 2 Pt.	1 1/2"	2 oz.

HEAVY ROUND SHANK SCREW DRIVER

Analysis controlled selected quality chrome plated steel blades.

Number	Blade Length	Tip Width	Overall Length	Wgt.
ST-1004	4"	1/4"	7 1/2"	2 oz.
ST-1006	6"	5/16"	10 1/4"	4 oz.
ST-1008	8"	3/8"	13"	7 oz.
ST-1010	10"	3/8"	15"	8 oz.

HEAVY SQUARE SHANK SCREW DRIVER

You will never turn the blade of any Blackhawk Screw Driver in its extruded plastic handle. These heavy square blades assure you super-strength when you need it.

Number	Blade Length	Tip Width	Overall Length	Wgt.
ST-1024	4"	1/4"	7 1/2"	3 oz.
ST-1026	6"	3/8"	10 1/4"	8 oz.
ST-1028	8"	7/16"	13"	10 oz.
ST-1032	12"	7/16"	17"	12 oz.

POCKET SIZE SCREW DRIVER WITH CLIP

Once you form the habit you will never be without one of these in your pocket. Its plastic handle assures insulation so that you can use it anywhere.

Number	Blade Length	Tip Width	Overall Length	Wgt.
ST-1150	2"	1/8"	4 3/8"	1 oz.

REVERSIBLE SCREW DRIVER

Solves on-the-spot requirements for proper blade style. ¼" x No. 2 Phillips — change blades in a snap.

Number	Blade Length	Width of Tip	Overall	Weight
ST-1200	Std. Bl. 2½"	Std. Bl. ¼"	7"	4 oz.
	Phil. 2½"	Phil. 2 Pt.	7"	4 oz.

ELECTRICIANS ROUND SHANK

Here's long reach plus slimness to get into tight places.

ST-1043	3"	3/16"	5¾"	1 oz.
ST-1046	6"	3/16"	9½"	2 oz.
ST-1048	8"	3/16"	11½"	2 oz.

ADJUSTING SCREW DRIVER

Generators in particular require strong compact Screw Drivers to reach many of the screws. These were made especially for that purpose.

ST-1145	1¼"	3/16"	3¼"	2 oz.
ST-1146	1¾"	¼"	3⅝"	2 oz.

CLUTCH TYPE SCREW DRIVER

For the new clutch or "figure 8" type screws which are becoming more and more popular. Complete coverage with 4 sizes. Extruded plastic handle.

ST-1102	3"	5/32"	6½"	3 oz.
ST-1100	4"	3/16"	7½"	4 oz.
ST-1103	5"	¼"	9¼"	6 oz.
ST-1104	5"	5/16"	9¼"	6 oz.

RADIO SERVICE SCREW DRIVERS

A slim, light screw driver for mechanics and radio service men. Blade forged of best quality steel, fully hardened and tempered and finished in bright nickel.

Number	Blade Length	Width of Tip	Dia. Blade	Weight
ST-1064	4	⅛	⅛	1 oz.
ST-1066	6	⅛	⅛	1 oz.
ST-1068	8	⅛	⅛	1 oz.

SURE GRIP SCREW HOLDING SCREW DRIVERS

This time and labor saving mechanism holds all types of screws on the screw driver blade for easy, one-handed operation. The flexible steel fingers open to grip the screw — hold it securely while driving.

ST-1189	2	⅛	⅛	1 oz.
ST-1191	4	⅛	⅛	1 oz.
ST-1192	6	⅛	⅛	2 oz.

OFFSET SCREW DRIVER

Offset Screw Drivers with bits at right angles. Especially adapted to drag link adjustments. Hardened and tempered.

Number	Stock	Length	Weight
ST-1183	3/16"	3	1 oz.
ST-1184	3/16"	4"	1 oz.
ST-1185	¼"	4¼"	1 oz.

PHILLIPS OFFSET SCREW DRIVER

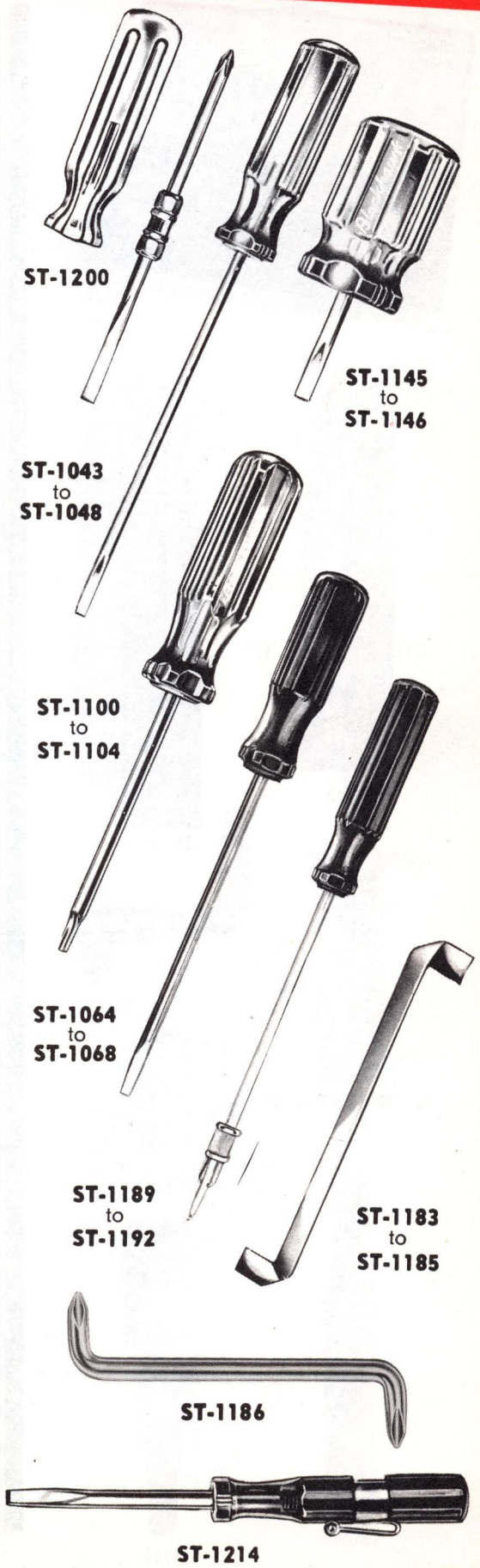
Operates where ordinary screwdrivers will not. Contains No. 1 and No. 2 Phillips points. Hardened and tempered for extra strength and durability.

ST-1186	No. 1 and 2 Pt.	5 oz.

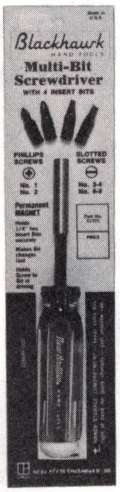
SPARK DETECTING SCREW DRIVER

Two Tools in one — an efficient Spark Plug Tester and a real Screw Driver. Use it for testing spark plugs, auto and tractor ignition systems. Has a breakproof, shock-proof plastic handle.

ST-1214	⅛"	2¼"	1 oz.

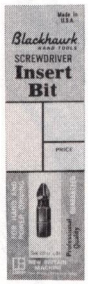


31002



31702

31752



¼" INSERT BITS

31732

31742

31762

31792

31722

¼" HEX SHANK
27 PC. SCREW & NUT DRIVING TOOL SET

This versatile new set is like owning 14 regular screwdrivers, 7 offset screwdrivers, 7 Allen wrenches and 7 nutdrivers. This master set includes; 7" Multi-Bit Screwdriver, 2-pc. 90° offset Socket and Bit Adapter, 1" long Socket Adapter, seven 1/4" dr. 6 pt. Sockets-3/16 thru 7/16", 1/4" hex Insert Bits for Nos. 1, 2 and 3 Phillips screws, Bits for Allen Screws 5/64 thru 3/16", Magnetic Bit Holder and Finder.

Part No.	Description	Weight
31002	27 Piece Set	1½ lbs.

4 Bit — ¼" Hex — 7" SCREWDRIVER SET

Magnetic force holds insert bits securely in place yet allows bits to be quickly and easily changed. Handy storage compartment in handle. Individually carded with Nos. 1 and 2 Phillips and 3-4, 6-8 slotted head bits.

Part No.	Description	Weight
31702	Screwdriver Set	1 lb.

4 Bit — ¼" Hex — 11" SCREWDRIVER SET

Extra length permits working in restricted areas. Permanent magnet holds ¼" hex Insert Bits securely and also holds screw to Bit in driving. Individually carded with Nos. 1 and 2 Phillips and 3-4, 6-8 slotted head bits. Compartment in handle for storage.

Part No.	Description	
31752	Screwdriver Set	1.2 lbs.

¼" INSERT BITS

Part No.	Description	Weight	Part No.	Description	Weight
31012	No. 1 Phillips	3 oz.	31352	5/64" Allen	3 oz.
31022	No. 2 Phillips	3 oz.	31362	3/32" Allen	3 oz.
31032	No. 3 Phillips	3 oz.	31372	7/64" Allen	3 oz.
31132	3-4 Slotted	3 oz.	31382	⅛" Allen	3 oz.
31162	6-8 Slotted	3 oz.	31392	9/64" Allen	3 oz.
31172	8-10 Slotted	3 oz.	31402	5/32" Allen	3 oz.
31182	10-12 Slotted	3 oz.	31412	3/16" Allen	3 oz.

¼" ACCESSORIES
OFFSET SOCKET ADAPTER & CONVERTER

Use with Multi-Bit Driver to drive ¼" square drive Sockets; add female square Converter to use with Insert Bits.

Part No.	Description	Weight
31732	Offset Socket Adapter	8 oz.
31742	Bit Converter	9 oz.

MAGNETIC BIT HOLDER

This magnetic holder will function as an extension for the 1/4" hex Multi-Bit Screwdrivers.

Magnet and snap ring hold 1/4" hex shank. Magnetic force passes through the bit to hold the screw in place for easy starting and retrieving.

Part No.	Weight
31762	1.2 oz.

BIT FINDER

Use with Slotted Head Bits — screw sizes 6-10. Keeps bit from slipping out of screw head slots — to make screwdriving easier and to prevent damage to work surfaces.

Part No.	Weight
31792	3 oz.

¼" HEX SHANK SOCKET ADAPTER

Formed in a 90° angle, this tool will drive nuts and hex head screws in hard-to-reach locations.

Part No.	Weight
31722	5 oz.

5/16" HEX SHANK
27 PC. SCREWDRIVING TOOL SET

The right screwdriving tool is always handy for instant use for hand driving. Set has all popular size bits for six different screw head styles normally used in automotive applications. Contains; Multi-Bit Magnetic Screwdriver, Magnetic Bit Holder, 3/8" sq. dr. Adapter, 5/16" hex insert bits for Nos. 1-2-3-4 Phillip screws, Nos. 4-5, 6-8, 12-14 slotted screws, 5/32" thru 3/8" Allen screws, Nos. 1, 2, 3, 4 positive drive screws, 5/32", 3/16", 5/16" Clutch head screws and No. TX-30, TX-45 & TX-50 Torks.

Part No.	Description	Weight
35002	27 Piece Set	2 lbs.

3 Bit — 5/16" Hex — 7" SCREWDRIVER SET

Permanent magnet holds 5/16" hex Insert Bits securely and also holds screw to bit in driving. Makes Bit changes fast. Three insert bits for Phillips screws Nos. 2 and 3, and slotted screws No. 12-14. Handy storage compartment in handle. Individually carded.

Part No.	Weight
35702	½ lb.

5/16" INSERT BITS

Part No.	Description	Weight	Part No.	Description	Weight
35012	No. 1 Phillips	5 oz.	35442	5/16" Allen	5 oz.
35022	No. 2 Phillips	5 oz.	35452	3/8" Allen	6 oz.
35032	No. 3 Phillips	5 oz.	35512	No. 1 Polidrive	5 oz.
35042	No. 4 Phillips	5 oz.	35522	No. 2 Polidrive	5 oz.
35142	No. 4-5 Slotted	5 oz.	35532	No. 3 Polidrive	5 oz.
35162	No. 6-8 Slotted	5 oz.	35542	No. 4 Polidrive	5 oz.
35172	No. 8-10 Slotted	5 oz.	35612	5/32" Clutch	4 oz.
35192	No. 12-14 Slotted	5 oz.	35622	3/16" Clutch	4 oz.
35402	5/32" Allen	4 oz.	35632	5/16" Clutch	4 oz.
35412	3/16" Allen	4 oz.	35662	TX-30 Torks	4 oz.
35422	7/32" Allen	4 oz.	35672	TX-45 Torks	5 oz.
35432	1/4" Allen	5 oz.	35682	TX-50 Torks	5 oz.

5/16" ACCESSORIES
5/16" HEX SHANK SOCKET ADAPTER

For 5/16" hex shank insert bits. Use with 3/8" drive hand tools.

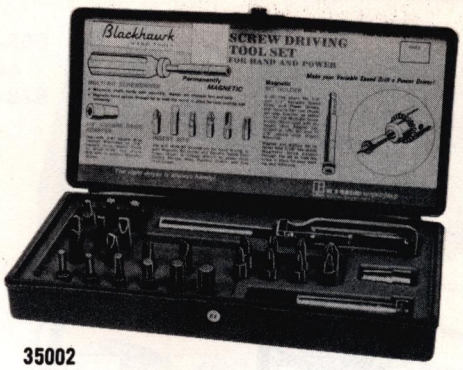
Part No.	Weight
35742	5 oz.

MAGNETIC BIT HOLDER

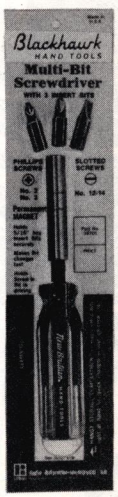
This magnetic holder will function as an extension for the 5/16" hex Multi-Bit Screwdrivers.

Magnet and friction bit retainer hold 5/16" hex shank, Magnetic force passes through the bit to hold the screw in place for easy starting and retrieving.

Part No.	Weight
35762	2.8 oz.



35002



35702

5/16" INSERT BITS

35012 to 35042

35142 to 35192

35402 to 35452

35512 to 35542

35612 to 35632

35662 to 35682

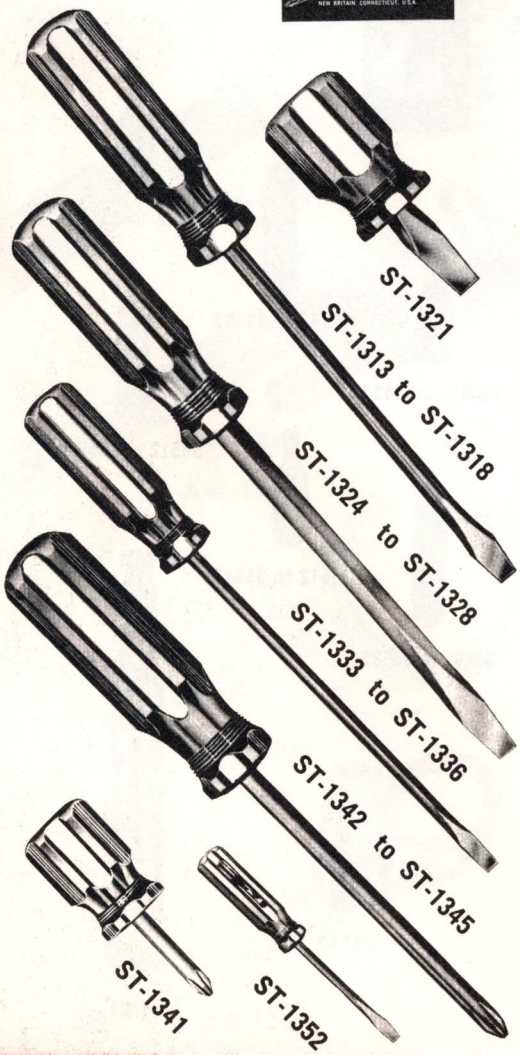
35742

35762

Blackhawk™
HAND TOOLS

ST-1360

ST-1361



Meet a mover! BLACKHAWK'S new "VALUE-LINE" of quality Screw Drivers! They're DESIGNED to move . . . ADVERTISED to move . . . DISPLAYED to move . . . and PRICED to move! BLACKHAWK'S new Screw Driver Program is specially tailored to your operation.

BLACKHAWK Screw Drivers feature handles with a full size comfortable grip. Made from clear tough plastic, handles are shock-proof and shatter-proof. Blades are forged from special steel. Plated blade-tips are cross ground to insure an accurate fit. And BLACKHAWK offers seven different style screw drivers in a multitude of sizes, to give you all the ingredients for plus sales and increased profits!

ST-1360 5 PIECE SCREW DRIVER SET
Contains 7″ and 10″ Round Blade Drivers, 9″ Cabinet Drivers, 7″ No. 2 Phillips Driver and 4″ Pocket Driver with Clip. Packed in reusable vinyl pouch.

ST-1361 7 PIECE SCREW DRIVER SET
Contains 7″ and 10″ Round Blade Drivers, 9″ Cabinet Driver, 7″ No. 2 Phillips Driver, 4″ Pocket Driver with Clip, 6″ No. 1 Phillips Driver and 3″ Stubby Driver. Packed in reusable vinyl pouch.

ROUND BLADE SCREW DRIVER

	Shank Size	Blade Length	Bit Width	O. A. Length
ST-1313	7/32″	3″	5/32″	6″
ST-1314	1/4″	4″	1/4″	7 1/2″
ST-1316	1/4″	6″	1/4″	9 1/2″
ST-1317	5/16″	7″	5/16″	10″
ST-1318	3/8″	8″	5/16″	12 1/4″

STUBBY SCREW DRIVER

	Shank Size	Blade Length	Bit Width	O. A. Length
ST-1321	1/4″	1 1/2″	3/16″	3 1/2″

SQUARE BLADE SCREW DRIVER

	Shank Size	Blade Length	Bit Width	O. A. Length
ST-1324	1/4″	4″	1/4″	7 1/2″
ST-1326	5/16″	6″	5/16″	9 3/4″
ST-1328	3/8″	8″	3/8″	12 1/4″

CABINET SCREW DRIVER

	Shank Size	Blade Length	Bit Width	O. A. Length
ST-1333	3/16″	3″	3/16″	6″
ST-1334	1/8″	4″	1/8″	7″
ST-1336	3/16″	6″	3/16″	9″

STUBBY PHILLIPS SCREW DRIVER

	Point Size	Blade Length	O. A. Length
ST-1341	2	1 1/2″	3 1/2″

PHILLIPS SCREW DRIVER

	Point Size	Blade Length	O. A. Length
ST-1342	1	3″	5 5/8″
ST-1343	2	4″	7 1/8″
ST-1345	3	6″	9 1/2″

POCKET SCREW DRIVER WITH CLIP

	Shank Size	Blade Length	Bit Width	O. A. Length
ST-1352	1/8″	2″	1/8″	3 7/8″

COLOR CODED NUT DRIVERS

Note the comfort and ease of driving — the shockproof, breakproof handles, color-coded for easy identification. Hollow shaft gives extra clearance to fit over long bolts. Blades and hex sockets are sturdy yet thin walled. Brilliantly plated for lasting durability.

Number	Hex Socket Sizes	Number	Hex Socket Sizes	Number	Hex Socket Sizes
ST-800	3/16"	ST-809	11/32"	ST-815	7/16"
ST-803	1/4"	ST-812	3/8"	ST-818	1/2"
ST-806	5/16"				
ST-821	7 Pc. Nut Driver Set				

NYLON SCREW STARTERS

When the blade is inserted in the slot, a slight turn releases the center section of the blade which rotates and exerts a positive grip upon the screw slot. Thus, firmly anchored, it is a simple matter to start the screw with one hand whether inserting or backing off the screw.

Number	Length	Weight
ST-1166	2½"	2 oz.
ST-1167	5 "	4 oz.
ST-1168	9 "	6 oz.

MAGNET TOOLS

The Blackhawk Magnet Tool pickes up and holds small parts . . . even works around corners. The business end contains a powerful permanent magnet and is arranged on a pivot which can be rotated 120° right or left. The aluminum shaft with knurled handle provides a firm, secure grip.

The Midget size tool is the ideal size for car radio and carburetor work. The Master size extends from a telescoped 16½" length to 27" fully extended.

Number	Length	Weight
ZT-1190	9¼"	1 oz.
ZT-1193	16½"	2 oz.

MAGNETIC PICK-UP TOOLS

The Magnetic Pick-Up Tool is the perfect retriever! No matter where you drop that small part, the powerful, permanent magnet will get it out. Head swivels a full 120° in either direction to get around corners. Completely nickel plated. Handles have easy-grip knurls.

Number	Length		Weight
ZT-1197	18"	Flex Handle	2 oz

HOLDER RETRIEVER — FULLY FLEXIBLE

Perfect for starting a nut or screw in an inaccessible spot or retrieving parts that fall into hard-to-get-at places. FULLY FLEXIBLE . . . 18" in overall length . . . gets around wiring, tubing or projecting apparatus and into spaces too small for any other tool. Can be turned or twisted in limitless shapes and still holds its grip.

Number	Reach	Weight
ZT-1180	15"	4 oz.

MUFFLER TOOL

Save over half the time when removing old, rusted, frozen, or corroded muffler connections. Simply split open tail pipe or muffler nipple and the connection slips out easily and cleanly, yet remains undamaged. The right angle handle keeps hands safely out of the way while keeping the cutting point always in view.

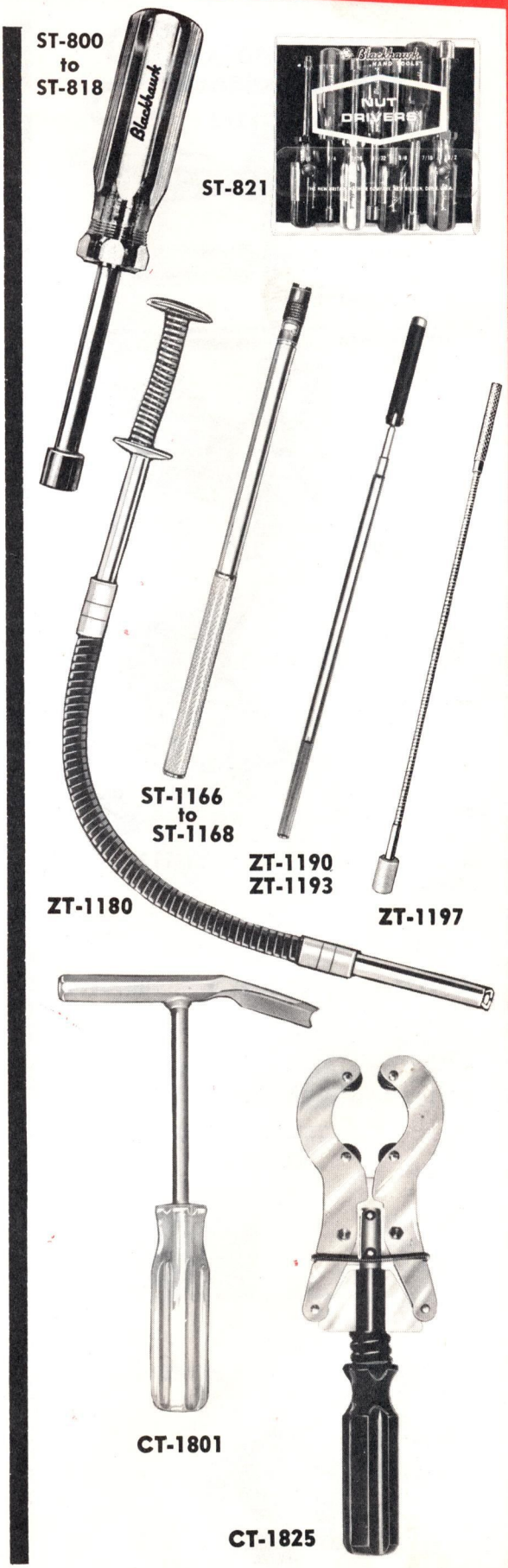
Number	Length	Weight
CT-1801	8"	6 oz.

MUFFLER CUT-OFF TOOL

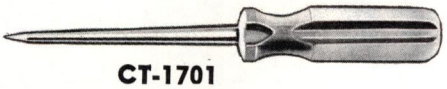
Expands simply by turning handle, eliminating clamps or locking devices. Locks into position from the bottom so overhead obstructions do not hinder and delay set-up. Range is 1⅜" to 2½".

Number	Length	Weight
CT-1825	10"	1 lb. 4 oz.

CT-1825-1 (Cutters)

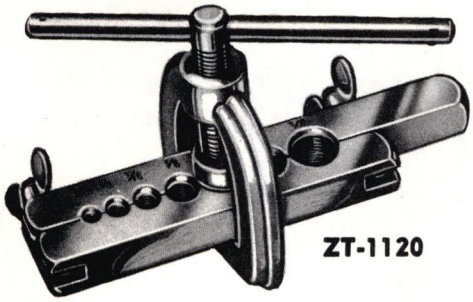


ZT-1207 to ZT-1212

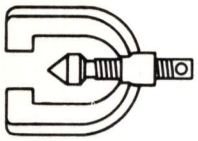


CT-1701

CT-1710

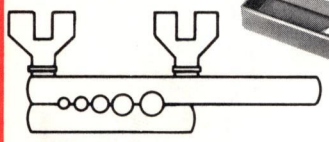


ZT-1120



ZT-1121-6

ZT-1121



ZT-1121-8

ZT-1121-1

ZT-1121-2

ZT-1121-3

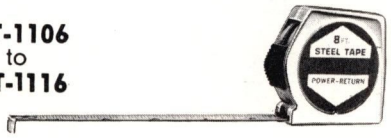
ZT-1121-4

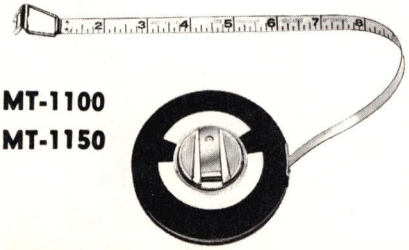
ZT-1121-5

ZT-1121-7

ZT-1121-9

MT-1106 to MT-1116





MT-1100
MT-1150

DUCKBILL TIN SNIPS

An exceptionally rugged snip for cutting metal, especially suited for body work. Cuts cleanly, features a comfortable grip and the leverage necessary for heavy-duty service.

Number	Length	Weight
ZT-1207	7"	6 oz.
ZT-1210	10"	12 oz.
ZT-1212	12"	24 oz.

SCRATCH AWL

There are many uses for your Scratch Awl such as: accurate marking, aligning, piercing sheet metal and enlarging holes.

No.	Length	Weight
CT-1701	8½"	1 oz.

COTTER PIN EXTRACTOR

Remove cotter pins on brake assemblies, connecting rods, or remove grommets or lock rings with just a simple twist of the wrist.

No.	Weight
CT-1710	1 oz.

FLARING TOOL

The most compact Flaring Tool set ever designed. One of the Blackhawk Self-Feeding Tube Cutters with a Blackhawk Flaring Tool takes care of no less than seven sizes, 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8". The design makes for a quick job with accurately flared openings.

Number	Length	Wgt
ZT-1120	6"	1 lb. 8 oz.

DOUBLE FLARING TOOL SET

The special design and construction of these double flaring tools will withstand the pressures necessary to double flare .040 tubings. The hardened bar assembly has five thread dies 3/16", 1/4", 5/16", 3/8" and 1/2" with corresponding adapters necessary in forming the double flare. The entire set is packaged in a sturdy metal case with full instructions.

Number

ZT-1121 SET CONTAINS

Part No.	Description	Part No.	Description
ZT-1121-1	3/16" Adapter	ZT-1121-6	Yoke Assembly
ZT-1121-2	1/4" Adapter	ZT-1121-7	Wing Nut
ZT-1121-3	5/16" Adapter	ZT-1121-8	Complete Bar Assem.
ZT-1121-4	3/8" Adapter	ZT-1121-9	Tightening Bar
ZT-1121-5	1/2" Adapter	ZT-1121-10	Metal Box

TAPE MEASURES & RULES

A tape rule or measure for every job. Available in lengths from 8 feet to 100 feet.

Number	Length	Weight
MT-1106	6'	4 oz.
MT-1108	8'	4 oz.
MT-1110	10'	4 oz.
MT-1112	12'	8 oz.
MT-1116	16'	8 oz.
MT-1150	50'	8 oz.
MT-1100	100'	1 lb.

TOOL HOLDER

Holds tools or other objects where danger of injuring hands or fingers exist. Adjustable with sure grip. Heavy gauge plastic.

Part No.	Length	Wgt.
CT-1470	6¾″	3 oz.

SPARK PICK-UP ADAPTER

This tool is used for quick spark pick-ups on all plugs. Made of high quality wire with insulated neoprene covering. Standard connections on both ends eliminates the need to puncture or cut existing connections.

Number	Length
ET-3005	9″

INSPECTION MIRROR

This handy mirror allows fast, visual inspection of all hidden areas. The double ball joint permits easy viewing to 360°. Mirror telescopes to 14″. Specially designed non-rotating hex rod prevents mirror from swinging out of alignment. Mirror has a vinyl insulated handle.

Number	Max. Length	Weight
ST-1250	14″	3 oz.

OIL LINE CLEANER KIT

Plugged up, gummed up oil lines can be cleaned easily and thoroughly in minutes. No engine tear down, no need for special tools or expensive attachments. Will also detect cam shaft bearings which have rotated out of line with oiler holes.

Number
ZT-2800

TUBE CUTTER

Useful pocket model Tube Cutter handles all sizes of tubing — copper, brass or lead — from ⅛″ to 1″ O.D. It features a razor-edge, tool steel replaceable cutting wheel, brass finished steel thumb screw rod and retractable reamer.

Number		Wgt.
ZT-1149	Tool Complete	8 oz.
ZT-100049	Replacement Cutting Wheel	

MINIATURE TUBING CUTTER

Nylon reduces friction and makes cutting easier, smoother. For all types of metal tubing. Will cut smallest tubing to ⅝″ outside diameter.

Number	Length	Weight
ZT-1145	2″	2 oz.

TUBING BENDER

Bends 4 sizes of steel or copper tubes; 3/16″, ¼″, 5/16″ and ⅜″, quickly, easily. Bends up to 180°. Nylon form prevents kinking.

Number	Length	Weight
ZT-1125	6″	1 lb.

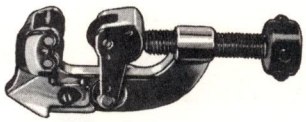
CT-1470

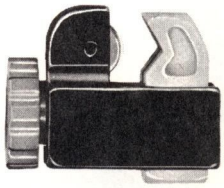
ET-3005

ST-1250

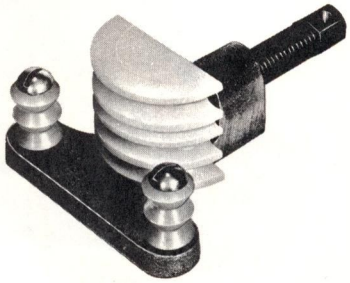
ZT-2800

ZT-1149

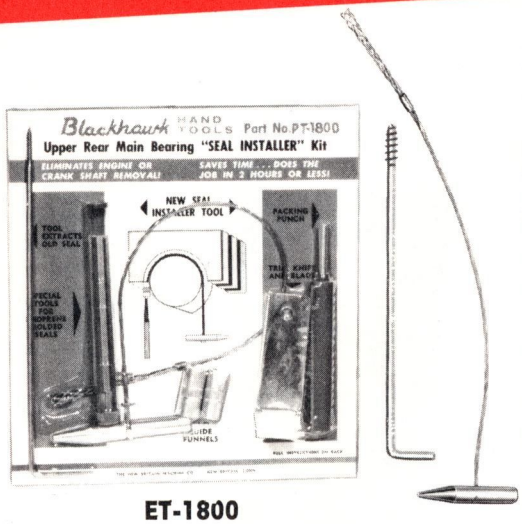




ZT-1145



ZT-1125



ET-1800

UPPER REAR MAIN BEARING SEAL INSTALLER AND SEAL EXTRACTOR

This Blackhawk dual-purpose Seal Installer and Remover will eliminate a tedious job of seal extraction and installing. There's no need to remove the engine or crankshaft. Simply insert the installer in the groove, grip the seal with the mesh-lock and pull. Designed for heavy-duty use, the gripping device has a tensile strength of 1,000 pounds.

Part No.	Weight
ET-1800	8 oz.

ET-2015

ETCHING PENCIL

Designed to permanently deep-etch identification marks on all tools and metal objects. Operates on 6 or 12 volt battery or transformer. The nose cone may be removed to adjust coil pressure or to replace the tip. Packaged on individual cards with heavy duty ground lead wire and complete instructions.

Part No.		Weight
ET-2015	Complete Unit	6 oz.

CT-1720

HEADLITE SPRING TOOL

Special spring tool positions or retrieves headlight springs. Invaluable aid to mechanics in automotive, electrical and appliance trades.

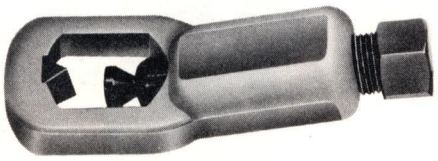
Number	Length	Weight
CT-1720	7½"	5 oz.

ZT-1404

BOLT AND RIVET CUTTER

This powerful Cutter will snip a bolt as if it were an icicle! This tremendous force comes from the double cam action in the head and the long leverage of the tough, forged handles. It has but six major parts: the jaws, side plates (which cannot twist) and the forged handles. Full heat treated special alloy steel blades cut the toughest bolt. Cut at center of blade for greatest strength. Will cut 5/16" soft bolts, 3/8" in threads; 5/16" soft chain, 1/4" hard chain; 3/16" alloy steel chain and 1/4" steel strand or wire rope.

No.	Length	Weight
ZT-1404	21"	5 lb.
ZT-140004	Extra Jaw	8 oz.



CT-1812

NUT BUSTER

Works in the tightest corners anywhere from bumper to bumper, but especially good in replacing shock absorbers. Cutting blade can be reversed to cut from top or bottom. Small, yet easy to use, it will explode the most tightly frozen nuts at a twist of the wrench. Will not damage bolts.

Part No.	Length	Weight
CT-1812	4 5/16"	12 oz.

POCKET KNIVES

Our fine line of Pocket Knives contain two basic ingredients; QUALITY MATERIALS and SKILLED WORKMANSHIP. The highest grade alloy steel blades, forged nickel-silver bolsters, milled brass or silver linings and sturdy cutlery steel springs are built-in features. Our handles are not only durable and attractive, they are comfortable in the hand, will not crack or chip if dropped.

These Pocket Knives are manufactured by experts who employ the most modern methods of production. However, hand craftsmanship makes up a large portion of the labor, adding extra refinements and assuring precision and quality to every knife.

SMALL JR. PREMIUM STOCK KNIFE

2 high-carbon alloy steel blades, forged nickel-silver bolster, brass lining. Bone stag type handle.

Number	Size Closed	Weight per Doz.
KB-1	2¾″	½ lb.

SMALL PREMIUM STOCK KNIFE

Bone stag type handle, finest quality cutlery steel spring, high-carbon alloy steel blades.

Number	Size Closed	Weight per Doz.
KB-5	3⅜″	1⅜ lbs.

LARGE PREMIUM STOCK KNIFE

Actual size closed 4 inches. Bone stag type handle, high quality alloy steel blades.

Number	Size Closed	Weight per Doz.
KB-10	4″	2⅛ lbs.

ELECTRICIAN'S STOCK KNIFE

Coco Bolo type handle with shackle. 2 high-carbon alloy steel blades.

Number	Size Closed	Weight per Doz.
KB-15	3¾″	3 lbs.

MEDIUM JACK KNIFE

Actual size closed 3⅝ inches. Bone stag type handle. 2 high quality alloy steel blades.

Number	Size Closed	Weight per Doz.
KB-20	3⅝″	2 lbs.

MEDIUM BARLOW JACK KNIFE

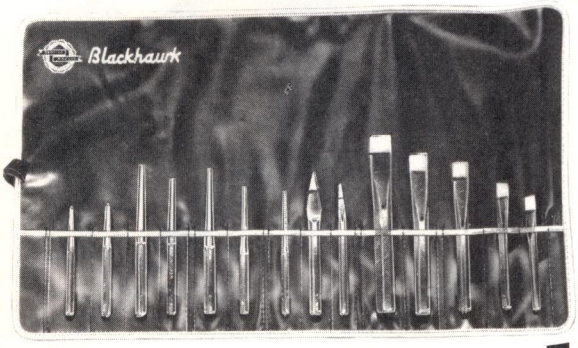
Bone stag type handle. Actual size closed 3⁵⁄₁₆ inches. 2 high-carbon alloy steel blades.

Number	Size Closed	Weight per Doz.
KB-25	3⁵⁄₁₆″	2⅛ lbs.

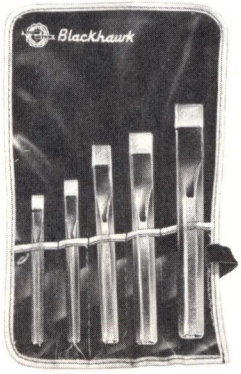
SHOP KNIFE

This fine Shop Knife has a large handle to insure a firm comfortable grip. Invaluable for cutting gaskets, installing floor mats and a thousand other cutting jobs.

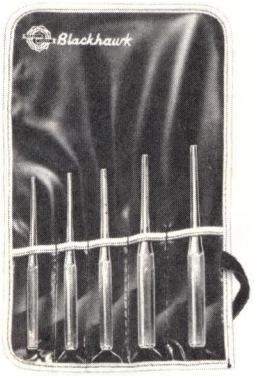
Number	Length	Wgt.
ZT-1114	6″	4 oz.
ZT-1115 (Extra Blade)		



CT-114



CT-105



CT-205

CHISELS AND PUNCH SETS

Blackhawk Chisels and Punches are forged of special alloy steel and carefully heat treated to give maximum strength and durability. All sets are packaged in an attractive, handy vinyl kit.

CHISEL AND PUNCH SET

A complete, well balanced assortment, carefully selected to cover all the needs of the master mechanic. Contains 14 pieces.

CT-1003	Hand Cold Chisel
CT-1004	Hand Cold Chisel
CT-1006	Hand Cold Chisel
CT-1008	Hand Cold Chisel
CT-1010	Hand Cold Chisel
CT-1156	Flat Cape Chisel
CT-1254	Diamond Pt. Chisel
CT-1304	Center Punch
CT-1314	Prick Punch
CT-1453	Pin Punch
CT-1454	Pin Punch
CT-1456	Pin Punch
CT-1464	Pin Punch
CT-1466	Pin Punch

Number		Wgt.
CT-114	Vinyl Kit	3 lb. 13 oz.

COLD CHISEL SET

A complete assortment of cold chisels to cover all straight cutting operations.

CT-1003	Hand Cold Chisel
CT-1004	Hand Cold Chisel
CT-1006	Hand Cold Chisel
CT-1008	Hand Cold Chisel
CT-1010	Hand Cold Chisel

Number		Wgt.
CT-105	Vinyl Kit	2 lbs.

PIN PUNCH SET

This set contains 5 of the most commonly used sizes.

CT-1453	Pin Punch
CT-1454	Pin Punch
CT-1456	Pin Punch
CT-1464	Pin Punch
CT-1466	Pin Punch

Number		Wgt.
CT-205	Vinyl Kit	1 ¾ lbs.

Tools designed to "take it." Every Blackhawk Chisel is carefully heat treated to insure against either being too hard or too soft. All of these Tools can be resharpened. Great care has been taken in designing the cutting edge so that it will remain sharp under heavy wear, and care should be taken in redressing.

RIVET BUSTER

Number	Size Stock	Bit Width	Length	Wgt.
CT-1650	3/4"	5/8"	12"	1 lb. 8 oz.

PRY BAR

Invaluable in removing bushings, bearings, grease cups, grease retainers, ball races and lifting cylinder heads. Can also be used as a lining up punch.

Number	Size Stock	Length	Head	Wgt.
CT-1617	9/16"	15"	1 7/8"	1 lb. 4 oz.
CT-1620	3/4"	18"		2 lb.

PINCH BARS

For prying, alignment work, and many other purposes. One end has a long, sharp pointed taper and the other end a sharp, curved leverage blade.

Number	Size Stock	Length	Wgt.
CT-1606	1/2"	14"	12 oz.
CT-1610	5/8"	16"	1 lb. 4 oz.

HAND COLD CHISELS

Number	Size Stock	Bit Width	Length	Wgt.
CT-1003	5/16"	3/8"	5"	1 oz.
CT-1004	3/8"	7/16"	5 1/2"	2 oz.
CT-1006	1/2"	5/8"	6 1/2"	6 oz.
CT-1008	5/8"	3/4"	7"	10 oz.
CT-1010	3/4"	7/8"	8"	13 oz.

LONG COLD CHISEL

Number	Size Stock	Bit Width	Length	Wgt.
CT-1108	5/8"	3/4"	12"	1 lb.
CT-1110	3/4"	7/8"	14"	1 lb. 12 oz.

CAPE CHISELS

Number	Size Stock	Bit Width	Length	Wgt.
CT-1156	3/8"	1/4"	5"	6 oz.
CT-1158	1/8"	3/8"	7"	9 oz.

ROUND NOSE CHISEL

Number	Size Stock	Bit Width	Length	Wgt.
CT-1204	3/8"	1/4"	5"	6 oz.

DIAMOND POINT CHISELS

Number	Size Stock	Bit Width	Length	Wgt.
CT-1254	3/8"	3/16"	5"	6 oz.

Blackhawk™ HAND TOOLS

CENTER PUNCH

Number	Size Stock	Length	Wgt.
CT-1303	1/4"	4 1/4"	1 oz.
CT-1304	3/8"	5"	2 oz.
CT-1306	1/2"	6"	6 oz.

SCRIBING PUNCH

Number	Size Stock	Length	Wgt.
CT-1314	3/8"	5"	2 oz.

PIN PUNCHES

Number	Size Stock	Bit Width	Length	
CT-1453	5/16"	1/8"	4 7/8"	2 oz.
CT-1454	5/16"	5/32"	5 1/8"	2 oz.
CT-1456	3/8"	3/16"	5 3/8"	6 oz.
CT-1464	7/16"	1/4"	5 7/8"	6 oz.
CT-1466	1/2"	5/16"	6 3/8"	12 oz.

LONG TAPER PUNCHES

Number	Size Stock	Bit Width	Length	
CT-1554	3/8"	5/32"	8"	2 oz.
CT-1556	1/2"	3/16"	9"	6 oz.
CT-1558	5/8"	5/16"	11"	10 oz.

ALIGNING PUNCH

Number	Size Stock	Bit Width	Length	
CT-1509	5/8"	1/4"	11"	8 oz.

HAND PUNCHES

Number	Size Stock	Bit Width	Length	
CT-1404	3/8"	5/32"	5 1/8"	2 oz.
CT-1406	1/2"	1/4"	6 1/8"	4 oz.
CT-1408	5/8"	5/16"	7 1/8"	8 oz.

HIGH SPEED HACK SAW BLADES

A Molybdenum Alloy Blade which will out-perform anything you have ever used before. It is especially designed for automotive work. For cutting nickel, high carbon steel and other tough alloys.

Number	Length	Width	Thickness	Teeth Per Inch	Pkg.	Wgt. Pkg.
FT-1100	10"	1/2"	.025	18	10	4 oz.
FT-1101	10"	1/2"	.025	24	10	4 oz.
FT-1102	10"	1/2"	.025	32	10	4 oz.
FT-1103	12"	1/2"	.025	18	10	4 oz.
FT-1104	12"	1/2"	.025	24	10	4 oz.
FT-1105	12"	1/2"	.025	32	10	4 oz.

FLEXIBLE HACK SAW BLADES

Where cutting is to be done on surfaces which are not extremely hard and where the possibility of flexing occurs, it is sometimes advisable to use the less expensive Alloy Blade. It is especially good for cutting at difficult angles and for ordinary work around the shop.

Number	Length	Width	Thickness	Teeth Per Inch	Pkg.	Wgt. Pkg.
FT-1120	10"	1/2"	.025	18	10	4 oz.
FT-1121	10"	1/2"	.025	24	10	4 oz.
FT-1122	10"	1/2"	.025	32	10	4 oz.
FT-1123	12"	1/2"	.025	18	10	4 oz.
FT-1124	12"	1/2"	.025	24	10	4 oz.
FT-1125	12"	1/2"	.025	32	10	4 oz.

ADJUSTABLE HACKSAW FRAME

Handy adjustable hacksaw frame is ideal for general use. Adjustable frame locks in either 8", 10", and 12" blades.

Number	Length	Weight
FT-1202	14 1/2	13 oz.

DELUXE ADJUSTABLE HACKSAW FRAME

Our finest heavy duty steel hacksaw frame guards against breakage of high speed blades and has a non-breakable pistol grip handle. Adjustable frame locks in either 8", 10", and 12" blades.

Number	Length	Weight
FT-1204	13 3/4	28 oz.

FILES

Mechanics have many uses for this fine group of Black hawk Files. Each File is suited for a specific job. Quality deep cutting edges and sharp teeth design, assure quicker and easier work.

MILL BASTARD

Number	Size	Wgt.
FT-1010	6"	1 oz.
FT-1011	8"	3 oz.
FT-1012	10"	7 oz.
FT-1013	12"	12 oz.
FT-1014	14"	1 lb. 2 oz.
FT-1015	16"	1 lb. 12 oz.

ROUND BASTARD

Number	Size	Wgt.
FT-1040	6"	1/2 oz.
FT-1041	8"	1 oz.
FT-1042	10"	4 oz.
FT-1043	12"	8 oz.

HALF ROUND BASTARD

Number	Size	Wgt.
FT-1050	8"	4 oz.
FT-1051	10"	8 oz.
FT-1052	12"	13 oz.
FT-1053	14"	1 lb. 4 oz.

EXTRA SLIM TAPER

Number	Size	Wgt.
FT-1060	6"	1/2 oz.

FLEXIBLE BODY FILE

Especially adapted for automobile bodies, fenders, door panels—wherever good surface finish is necessary.

Number		Size	Wgt.
BT-1300	Flat File, 8 teeth per in.	14"	8 oz.
BT-1301	Flat File, 7 teeth per in.	14"	8 oz.
BT-1302	Shell File, 8 teeth per in.	14"	8 oz.

CHAIN SAW FILES

Specially made for working on all makes and models of chain saws on straight or curved surfaces.

Number	Length	Weight
FT-1082	8" x 7/32" Round	1 oz.
FT-1084	8" x 1/4" Round	1 oz.

SOLID BODY FILE HOLDER

(Made from selected Maple)

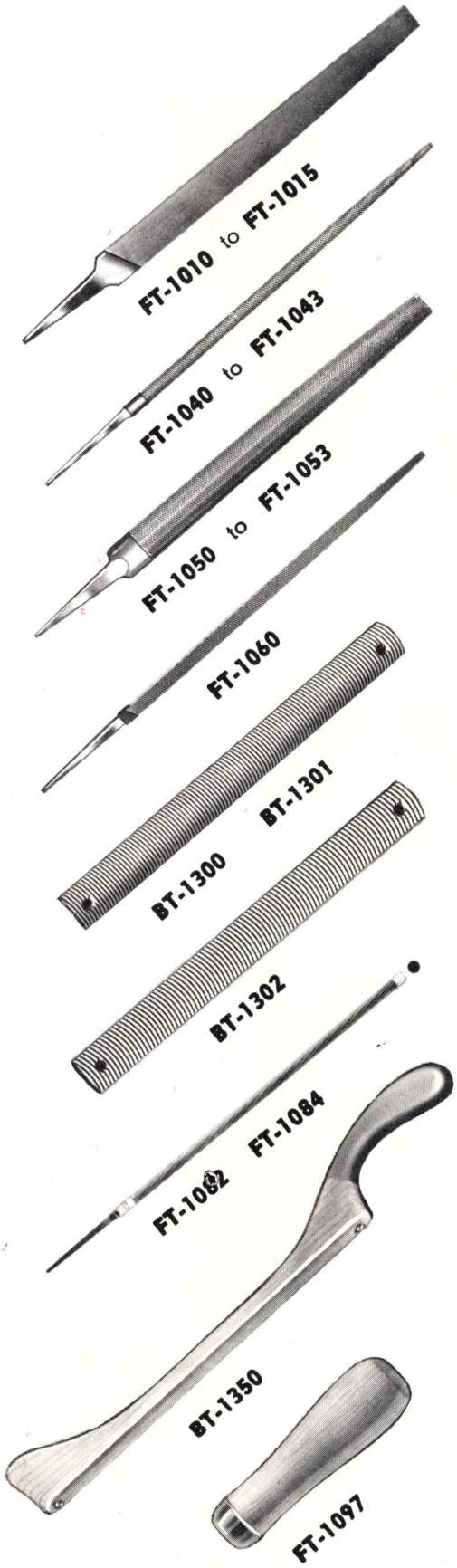
Holds the File securely without undue flexing which sometimes causes breakage. Because the File rests against a wooden support, it does not have a dulling effect on the curved teeth.

Number	Length	Overall	Wgt.
BT-1350	14"	18"	3/4 lb.

COMBINATION FILE HOLDER

Will take either 12" or 14" body Files. Made of heavy steel which will stand up under severe use.

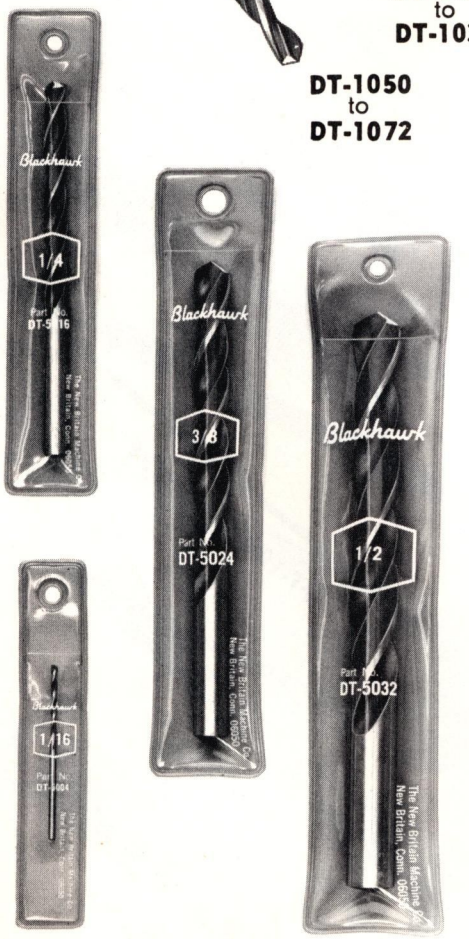
Number	Length	Wgt.
FT-1097	4 1/2"	1 1/2 lbs.



DT-1004 to DT-1032

DT-1033 to DT-1039

DT-1050 to DT-1072



DT-5004 to DT-5032

HIGH SPEED DRILLS

STRAIGHT SHANK

These famous Blackhawk Drills, constructed for all purpose work, are ideal for Automotive, Aircraft and Industrial fields.

Manufactured from the highest grade of Alloyed High Speed Steel obtainable, Blackhawk Drills continue to cut accurately and true at frictional heat temperatures up to 1200°.

Number	Diam.	Number	Diam.	Number	Diam.
DT-1004	1/16"	DT-1016	1/4"	DT-1028	7/16"
DT-1005	5/64"	DT-1017	17/64"	DT-1029	29/64"
DT-1006	3/32"	DT-1018	9/32"	DT-1030	15/32"
DT-1007	7/64"	DT-1019	19/64	DT-1031	31/64"
DT-1008	1/8"	DT-1020	5/16"	DT-1032	1/2"
DT-1009	9/64"	DT-1021	21/64"	DT-1033	9/16"
DT-1010	5/32"	DT-1022	11/32"	DT-1034	5/8"
DT-1011	11/64"	DT-1023	23/64	DT-1035	11/16"
DT-1012	3/16"	DT-1024	3/8"	DT-1036	3/4"
DT-1013	13/64"	DT-1025	25/64"	DT-1037	13/16"
DT-1014	7/32"	DT-1026	13/32"	DT-1038	7/8"
DT-1015	15/64"	DT-1027	27/64"	DT-1039	1"

1/4" DRIVE HIGH SPEED DRILLS

Number	Drill Size	Shank Diam.
DT-1050	5/16"	1/4"
DT-1058	3/8"	1/4"
DT-1064	7/16"	1/4"
DT-1072	1/2"	1/4"

PACKAGED HIGH SPEED DRILLS

Our famous line of High Speed Drills in a complete range of sizes are now packaged in Handy Re-usable Vinyl Pouches.

Number	Diam.	Number	Diam.	Number	Diam.
DT-5004	1/16"	DT-5014	7/32"	DT-5024	3/8"
DT-5005	5/64"	DT-5015	15/64"	DT-5025	25/64"
DT-5006	3/32"	DT-5016	1/4"	DT-5026	13/32"
DT-5007	7/64"	DT-5017	17/64"	DT-5027	27/64"
DT-5008	1/8"	DT-5018	9/32"	DT-5028	7/16"
DT-5009	9/64"	DT-5019	19/64"	DT-5029	29/64"
DT-5010	5/32"	DT-5020	5/16"	DT-5030	15/32"
DT-5011	11/64"	DT-5021	21/64"	DT-5031	31/64"
DT-5012	3/16"	DT-5022	11/32"	DT-5032	1/2"
DT-5013	13/64"	DT-5023	23/64"		

HIGH SPEED DRILL SETS

Blackhawk features complete professional drill sets for practically any job. In your choice of sets from 13 to 29 High Speed Drills, Blackhawk sets are conveniently packaged in metal or plastic index containers. 13 piece sets are available in sizes 1/16" to 1/4" and the 29 piece set from 1/16" to 1/2"; the complete set for professional mechanics.

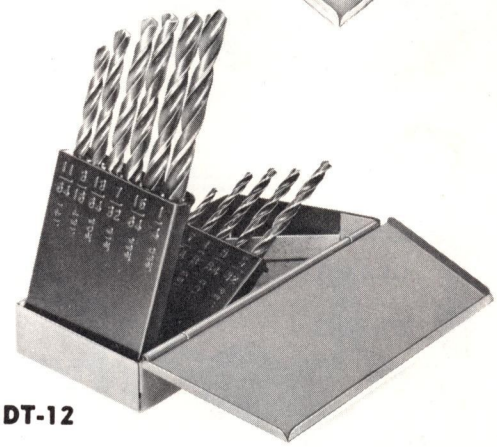
A drill set for every purpose, from the smallest jobs to complete sets for professional mechanics. A choice of sets from 13 pieces to 29 pieces, packed in handy index containers. Drills are manufactured from the highest grade of alloyed high speed steel available.

DT-10

29-PIECE HIGH SPEED DRILL SET

A fine combination: High Speed Drills in Handy Index Container — every size from 1/16" to 1/2" by 64ths. The complete Set for professional mechanics.

Number	Weight
DT-10	3 lbs., 8 oz.



DT-12

13-PIECE HIGH SPEED DRILL SET

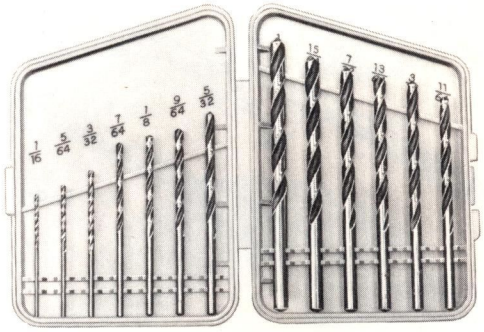
Contains 13 Drills in sizes 1/16" to 1/4" by 64ths. Ideal for the small garage or general repair shop. Packed in convenient Index Container.

Number	Weight
DT-12	7 oz.

13-PIECE DRILL SET

Contains 13 of the most popular drills in sizes 1/16" to 1/4". Packed in sturdy reusable plastic case.

Number	Weight
DT-20	1/4 Lb.



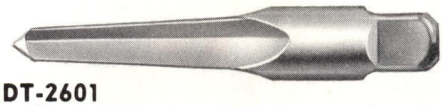
DT-20

SCREW EXTRACTORS

Nothing requires more strength and toughness than an Extractor to remove broken studs. These Extractors are hand forged to insure correct temper, angle and grip.

Number	Bolt. Diam.	Use Drill	Drill Depth	Wgt.
DT-2601	1/4" to 5/16"	9/64"	3/8"	1 1/2 oz.
DT-2602	5/16" to 3/8"	3/16"	1/2"	1 1/2 oz.
*DT-2603	3/8" to 7/16"	15/64"	1/2"	2 oz.
DT-2604	1/2" to 9/16"	5/16"	1/2"	3 oz.
DT-2605	1/2" to 5/8"	3/8"	5/8"	3 1/2 oz.

*Recommended for Alemite Fittings.

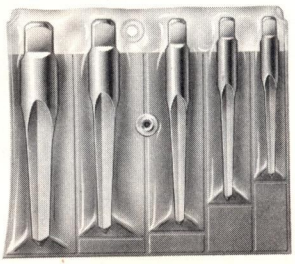


DT-2601 to DT-2605

SCREW EXTRACTOR SET

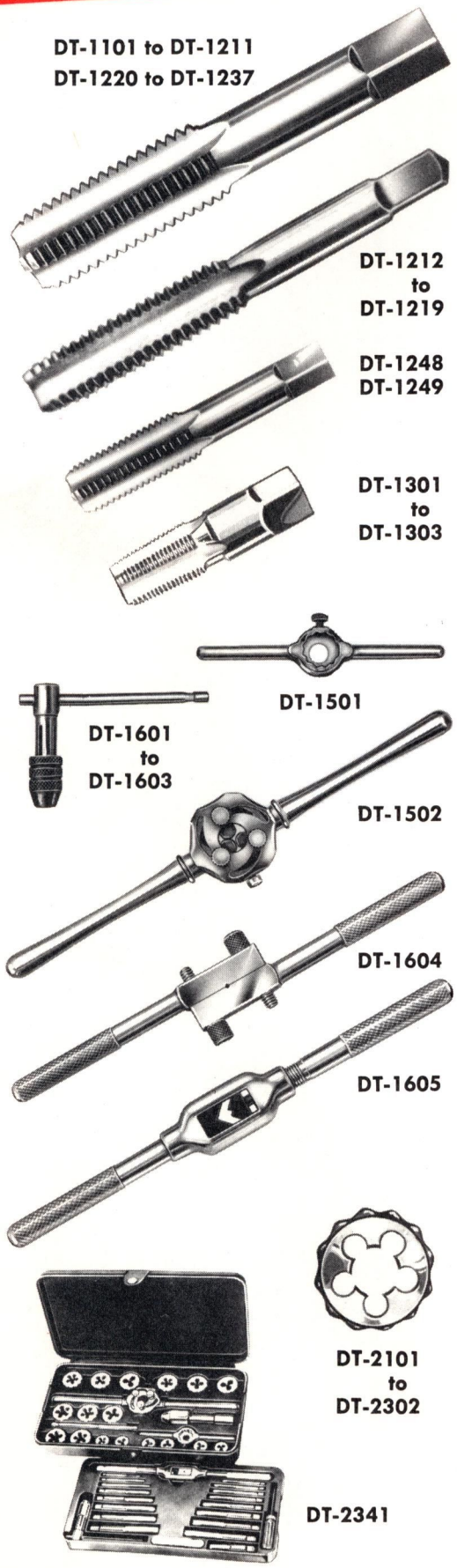
Set is used for the removal of broken studs, set screws, pipe and alemite fittings. Packaged in a handy plastic kit. Specifications are listed above–Nos. DT-2601 through DT-2605.

Set No.	Wgt.
DT-55	9 oz.



DT-55

Blackhawk™ HAND TOOLS



Blackhawk Taps and Dies are made of the highest quality carbon alloy steel. Laboratory controlled, heat treatment and modern production methods insure long life and clean, accurate threads. All dies are double hex, either 5/8" or 1" enabling the mechanic to use them with a wrench or socket to reach inaccessible spots.

CARBON HAND TAPS

Part No.	Tap Size
DT-1101*	4 x 36
DT-1102	4 x 40
DT-1103	5 x 40
DT-1104*	6 x 32
DT-1105*	8 x 32
DT-1106*	10 x 24
DT-1107*	10 x 32
DT-1108*	12 x 24
DT-1109	14 x 20
DT-1201	3/16 x 24
DT-1202*	1/4 x 20
DT-1203*	5/16 x 18
DT-1204*	3/8 x 16
DT-1205*	7/16 x 14
DT-1206*	1/2 x 13
DT-1207*	1/4 x 28
DT-1208*	5/16 x 24
DT-1209*	3/8 x 24
DT-1210*	7/16 x 20
DT-1211*	1/2 x 20
DT-1212	9/16 x 12
DT-1213	5/8 x 11
DT-1214	3/4 x 10
DT-1215	7/8 x 9
DT-1216	9/16 x 18
DT-1217	5/8 x 18
DT-1218	3/4 x 16
DT-1219	7/8 x 14

BOTTOMING TAPS

Part No.	Tap Size
DT-1220	1/4 x 20
DT-1221	5/16 x 18
DT-1222	3/8 x 16
DT-1223	7/16 x 14
DT-1224	1/2 x 13
DT-1225	9/16 x 12
DT-1226	5/8 x 11
DT-1227	3/4 x 10
DT-1228	7/8 x 9
DT-1229	1/4 x 28
DT-1230	5/16 x 24
DT-1231	3/8 x 24
DT-1232	7/16 x 20
DT-1233	1/2 x 20
DT-1234	9/16 x 18
DT-1235	5/8 x 18
DT-1236	3/4 x 16
DT-1237	7/8 x 14

SPARK PLUG TAPS

DT-1248	14MM
DT-1249	18MM

PIPE TAPS

DT-1301*	1/8 Pipe
DT-1302	1/4 Pipe
DT-1303	3/8 Pipe

TOOLS

Part No.	Item
DT-1501*	Die Stock
DT-1502*	Die Stock
DT-1601*	T Tap Wrench
DT-1602	T Tap Wrench
DT-1603*	T Tap Wrench
DT-1604	Tap and Reamer
DT-1605*	Wrench

DOUBLE HEX DIES

Part No.	Die Size
DT-2101*	4 x 36
DT-2102	4 x 40
DT-2103	5 x 40
DT-2104*	6 x 32
DT-2105*	8 x 32
DT-2106*	10 x 24
DT-2107*	10 x 32
DT-2108*	12 x 24
DT-2109	14 x 20
DT-2201	3/16 x 24
DT-2202*	1/4 x 20
DT-2203*	5/16 x 18
DT-2204*	3/8 x 16
DT-2205*	7/16 x 14
DT-2206*	1/2 x 13
DT-2207*	1/4 x 28
DT-2208*	5/16 x 24
DT-2209*	3/8 x 24
DT-2210*	7/16 x 20
DT-2211*	1/2 x 20
DT-2301*	1/8 Pipe
DT-2302	1/4 Pipe

PROFESSIONAL MECHANIC TAP AND DIE SET

The Blackhawk Professional Mechanic Set of taps and dies is conveniently packaged in an unbreakable, compact, plastic case. There is a separate compartment for each of the 41 tools. Set contains: one each of the above items that are starred (*) plus 14 leaf screw pitch gauge and screwdriver.

Number	Type of Die	Weight
DT-2341	Solid Double Hex	**4 lbs.**
DT-2341-P-1	Box Only	

TIRE AND RIM BRUSH

A sturdily made Brush with 19 rows, 3 wide, firmly secured. Because the wires are 1 3/16" long, they will give excellent service.

Number	Length	Wgt.
ZT-1310	14"	7 oz.

HEAVY DUTY BRUSH AND SCRAPER

Has 17 rows, 4 wide, which insure fast work on large surfaces. Wires, 1 3/16" long. Wide hardened steel scraper attached. Unequalled for removing rust, dirt, grease and paint.

Number	Length Block Overall	Wgt.
ZT-1312	10"	8 oz.

CARBON CLEANING END BRUSH

The heavy, wear-resisting crimped wire thoroughly and quickly removes hard carbon deposits from cylinder heads, blocks, tops of pistons, valve ports, etc. in a fraction of the time required by hand cleaning. For use on electric drills, pneumatic tools and flexible shafts. Length of wire out of cup, 1". Packed individually.

Number	Diameter Face	Diameter Shank	Wgt.
ZT-1301	3/4"	1/4"	1/2 lb.

HEAVY DUTY KNOT END CLEANING BRUSH

Specially drawn wire forms heavy-duty knot ends, matched for true balance. Extra cutting points speed up cleaning of carbon, scale, rust, burrs, and paint. Especially useful in corners, around studs, or in pockets. Packed individually.

Number	Diameter Face	Diameter Shank	Wgt.
ZT-1300	1 1/8"	1/4"	1/2 lb.

HEAVY DUTY WIRE WHEELS

Widely used with portable tools and bench grinders for removing carbon, paint, rust and scale. Also for roughing up tires and tubes prior to vulcanizing. The countless special cleaning operations in the Automotive Field demand brushes which are outstanding. These Brushes are made from thousands of strands of tough, wear-resisting wire, encased between two steel plates, insuring a densely filled, even brushing surface. The Brushes are evenly trimmed and exactly balanced to produce efficient operation.

Arbor hole is adjusted to shaft by simply slipping into the standard opening of the Wheel the pair of sturdy Adapters which are furnished with each Brush.

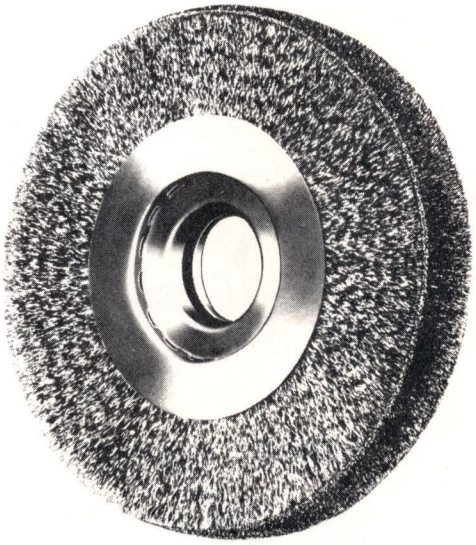
Number	Diameter	Width of Face	Arbor Hole	Wgt.
ZT-1303	4"	1 1/8"	1/2"	3/4 lb.
ZT-1305	6"	1 1/8"	1/2"	1 1/2 lbs.

ZT-1310

ZT-1312

ZT-1301

ZT-1300



ZT-1303
ZT-1305

TUBELESS TIRE BEAD EXPANDER

Expander consists of a tough nylon cover over a pliable neoprene rubber tube—contains no steel bands to break or snap and folds to store easily in a minimum of space. Constructed to withstand air pressure up to 200 pounds and to resist acids, grease and solvents.

Number	Length	Wgt.
NR-212B	7½ feet	1½ lbs.
NR-212B P-1	extra valve	1 oz.

FOUR-WAY RIM WRENCH

Has four most often used sizes of hex openings. ¾", 13/16", ⅞" and 15/16". Shank is ⅝" diameter for strength. Sockets are deep broached for long bolts. Its extra length clears the deepest fenders of all late model cars.

Number	Length	Wgt
RT-1006	20"	3 lbs.

GREASE FITTING TOOLS

Here are a pair of real time savers — each Tool fits either Alemite or Zerk fittings. The Tool compactly contains three necessary parts: A socket to safely remove tightest fittings without breakage — an Extractor to surely back out broken fittings — a Tap to rethread damaged holes.

Number	Size	Wgt.
ZT-1519	2½"	3½ oz.
ZT-1517	3½"	3½ oz.

UNIVERSAL OIL FILTER WRENCH

Unique design permits positive grip and easy removal of "Spin-On" oil filters. The harder you pull the tighter it grips but will not crush or split filter. The pressure is exerted equally on entire Filter surface.

Part No.	Weight
ZT-1620	12 oz.

OIL FILTER WRENCH

This rugged wrench has an 8" handle that will give you all the leverage you need to remove automotive oil filters. Wide 1-1/4" clamp assures safe gripping. Heavy duty 1/4" pivot pin provides greater strength. Made of heavy 14 gauge steel, built to last.

Number	Length	Weight
ZT-1622	12"	½ Lb.

FUEL FILTER WRENCH

Built of heavy 14 gauge steel, extra wide clamp and heavy duty pivot pin. This wrench will remove fuel filters without crushing them.

Number	Length	Weight
ZT-1624	12"	½ Lb.

UNIVERSAL DRAIN PLUG WRENCH

Will take care of most of the drain plugs on today's and yesterday's cars and trucks. This tool is a stamping and will render good service for a reasonable length of time.

RT-1300	11¼"	½ lb.

VOLKSWAGEN DRAIN PLUG WRENCH

This 17mm hex wrench is designed to be used on Volkswagen transmission, drain and filler plugs. This wrench is made of alloy steel, drop forged and triple plated chrome finish for long life. 2" long, this handy wrench fits all 3/8" drive tools.

Number	Size	Length	Weight
RT-1305	17mm	2"	3 oz.

BENDIX BRAKE SPRING TOOL

This tool works on Bendix and all other brakes having the spring hooked onto the pin. Socket end is slipped over pin and turned until grooved lip receives spring. Continuing the turning of the Brake Spring Tool removes the spring with little effort. To replace spring, opposite end of the Tool is hooked onto the post with end of spring riding tool shaft. Raising the socket end of the Tool tenses the spring and it slides down the Tool onto the post.

No.	Weight
ZT-1003	2 oz.

BRAKE TOOLS

These Brake Tools are forged of tough alloy steel. Angles on the Spoons are at the correct pitch to assure proper performance.

No.	Width of Blades	Length	Weight
ZT-1005	½"	7½"	4 oz.

Small Brake Spoon for late model Chevrolet cars and others similarly equipped with narrow brake slots.

No.	Length	Weight
ZT-1006	6"	2 oz.

Large Brake Spoon for adjusting the star nut on two-shoe Bendix Brakes and other models.

No.	Length	Weight
ZT-1008	8½"	3 oz.

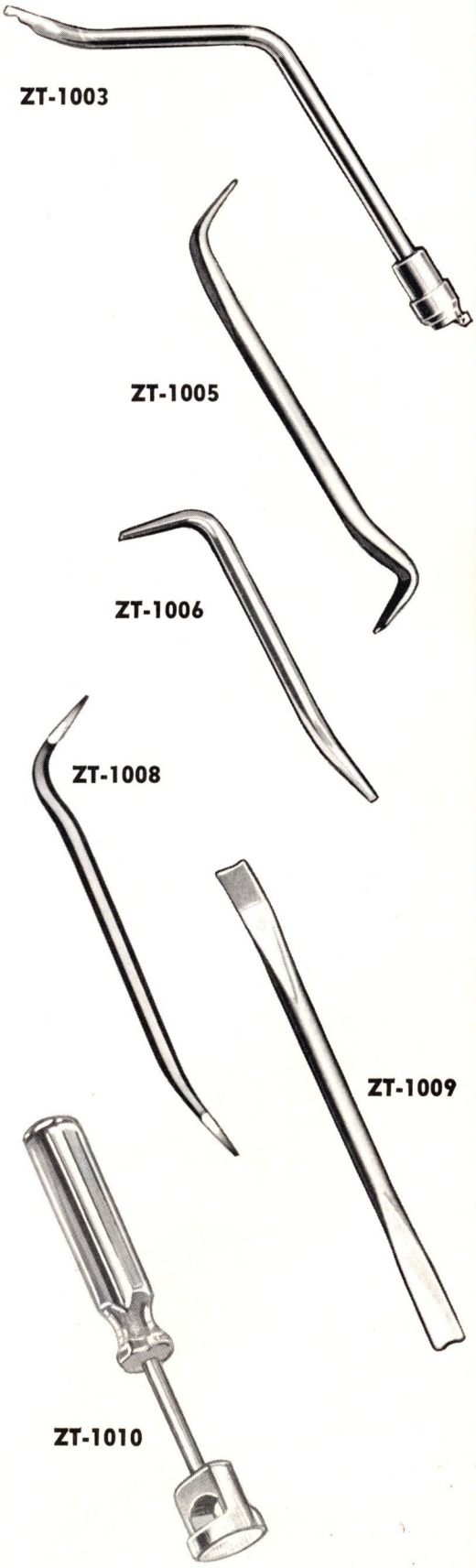
Designed for service work on most types of Bendix Brakes. Special angle and shape of ends fits the job correctly — does away with makeshift tools, saves time and effort.

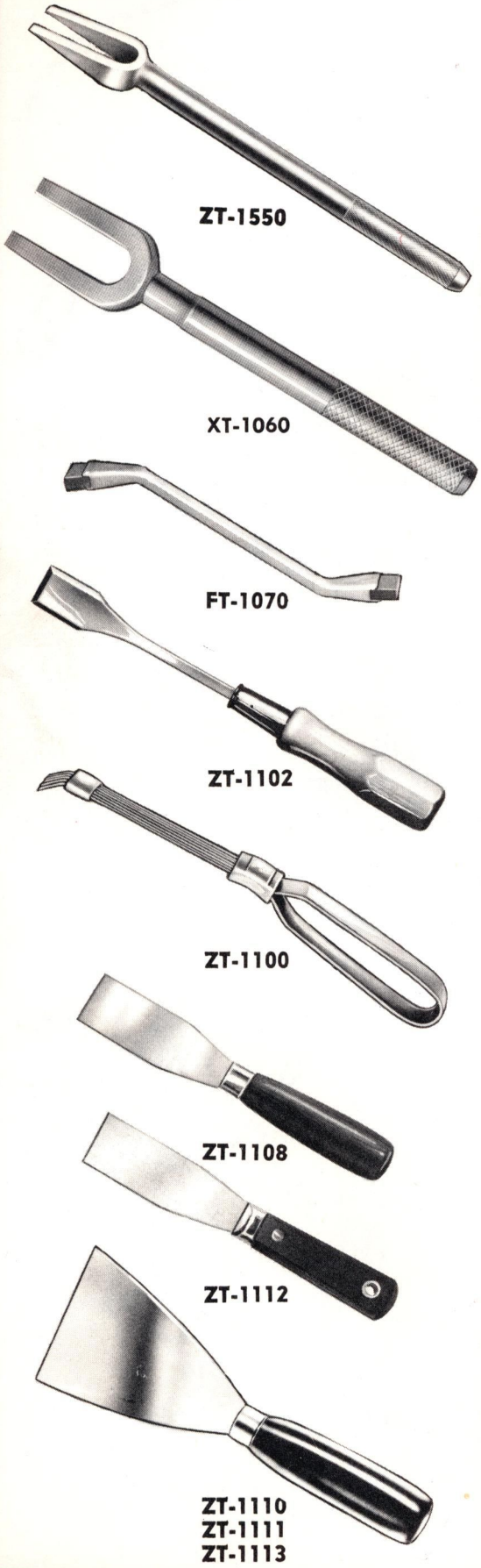
No.	Length	Weight
ZT-1009	8"	4 oz.

SPRING COMPRESSOR

With the Brake Spring Compressor you can remove brake shoe hold-downs in seconds with complete safety. Place tapered end of Tool on steel cup. Hold end of pin with finger on opposite side on rear of back-up plate. Push in on tool until arrow head of pin is uncovered and give one quarter turn. Cup comes off spring easily and without danger to your fingers.

No.	Weight
ZT-1010	4 oz.





SHOCK ABSORBER LINK SEPARATOR

It's always a tough job to separate shock absorber links and tie rod joints. Just insert the tapered wedge between the parts, hit the end of the tool with a hammer, and the part is off.

No.	Length	Weight
ZT-1550	12"	1 lb. 4 oz.

BALL JOINT SEPARATOR

Made of alloy steel, this tool is built for rugged use. Simply place prongs between ball joint and steering knuckle, a few sharp blows with a hammer will easily separate the ball joint.

Number	Opening	Length	Weight
XT-1060	15/16"	11 7/8"	2 Lbs.

COMMUTATOR SMOOTHIE

A resurfacing tool designed to smooth commutators of auto generators, starting motors and similar equipment. Resurfacer at each end — one polish grade, the other finish grade. Handle and Resurfacers are non-conducting.

FT-1070	8 1/2"	1 oz.

GASKET SCRAPER

A special Tool to provide a perfect surface when installing new gaskets. The 1 1/16" wide flat blade of special steel quickly removes shellacked gaskets, rust or other materials leaving a perfectly smooth surface.

Number	Length	Wgt.
ZT-1102	11"	6 oz.

FLEXIBLE CARBON SCRAPER

A unique Tool that is made from a number of different segments which go after carbon independently. Will hit the low spots as well as the high places and do an efficient job.

Number	Length	Wgt.
ZT-1100	9"	5 oz.

DEGREASING SCRAPERS

Used widely by Lubrication men, but also borrowed by every mechanic in the shop because it speedily strips off grease from motors as well as chassis.

No.	Length	Weight
ZT-1108	7"	2 oz.
ZT-1112 (Heavy duty)	7 1/4"	3 oz.

CARBON SCRAPERS

When you want to scrape carbon, old gaskets or any other material that refuses to come off, use one of these Scrapers. They work like magic.

No.	Width	Length	Weight
ZT-1110	2 3/4"	8"	1 oz.
ZT-1111	1 1/4"	7 1/4"	2 oz.
ZT-1113	3"	7 1/4"	3 oz.

RATCHET PISTON RING COMPRESSOR

Ratchet action provides positive compression and finger tip release. Deep enough to handle the modern four-ring piston — built of heavy spring steel to compress the stiffest rings evenly. Lower edge beaded.

Number		Capacity	Wgt.
ZT-1252	Passenger Car	2 1/8" to 5"	8 oz.
ZT-1253	Truck & Tractor	3 1/2" to 6 1/2"	12 oz.

TRUCK-TRACTOR DIESEL COMPRESSOR

The giant 6½" high Ratchet Compressor with four tension bands. Bands are clock spring steel and lower edge is beaded.

Number		Capacity	Wgt.
ZT-1254	Diesel Truck & Tractor	3 1/2" to 7"	1½ lb.

STANDARD PISTON RING COMPRESSOR

Beaded along lower edge to prevent Compressor entering cylinder and with dependable friction-type brake to hold rings in compression.

Number		Capacity	Wgt.
ZT-1255	Passenger Car	2 1/8" to 5"	8 oz.
ZT-1251	Special for Briggs & Stratton Motors		4 oz.

PISTON RING GROOVE CLEANERS

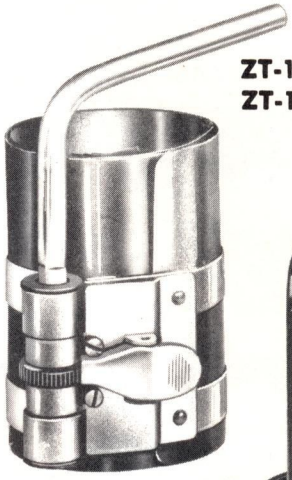
Make easy jobs out of those that were formerly tedious and often injurious to pistons. Both Tools have durable compensating spring to control pressure on the cutter. With these two Tools you can service all cars with pistons up to 6" diameter. Complete with Cutter Blade.

Number	Length	Blade Size	Wgt.
ZT-1260	11½"	3/32", 1/8", 5/32", 3/16"	6 oz.
ZT-1261	11½"	5/64", 5/32", 3/16", 3/32"	8 oz.
ZT-1260P-1	3/32", 1/8", 5/32", 3/16"	Replacement Blade	¼ oz.
ZT-1261P-1	5/64", 5/32", 3/16", 3/32"	Replacement Blade	¼ oz.

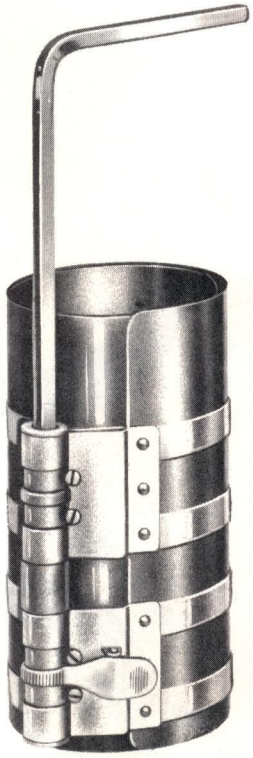
HEAVY DUTY RING GROOVE CLEANER

Removes carbon deposits quickly, easily and accurately in and around ring grooves without damage to pistons. Self-aligning feature assures safety to groove walls. Accommodates piston diameters 2 3/8" to 4 7/8" and ring groove sizes 5/64", 3/32", 1/8", 5/32" and 3/16". Jaws are easily locked and released.

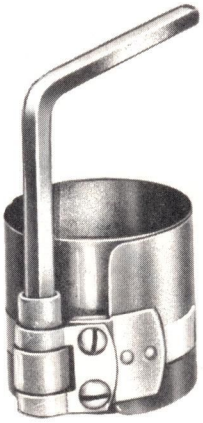
Number	Length	Weight
ZT-1265	11"	1 lb. 6 oz.
ZT-1265-P-1 Replacement Cutter Blade		



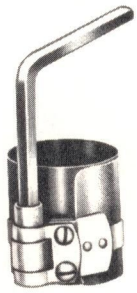
ZT-1252
ZT-1253



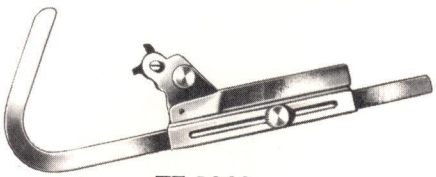
ZT-1254



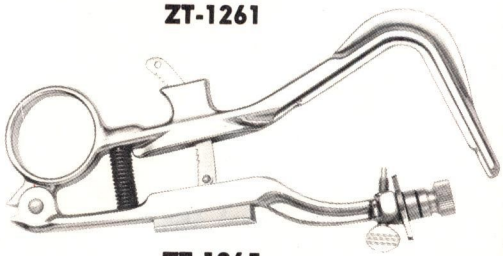
ZT-1255



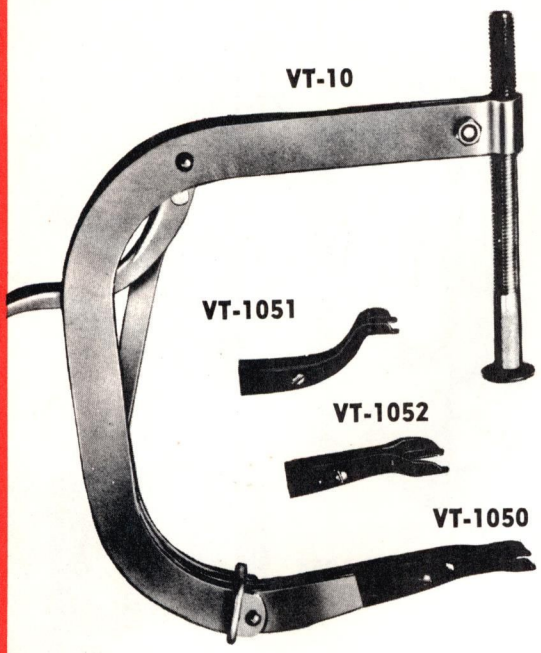
ZT-1251



ZT-1260
ZT-1261



ZT-1265



"C" TYPE VALVE LIFTER

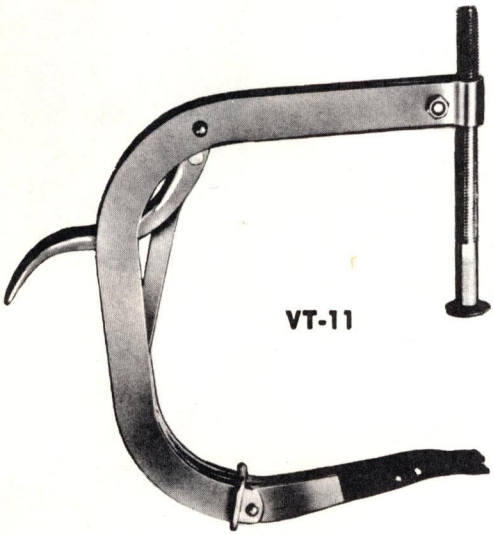
A practical Valve Spring Compressor for swift, efficient handling of stiffest valve springs. Handle positioned in "C" frame clears high fenders, hood and tie rods. Loose ring attachment on frame may be moved to hold tool locked in any desired position. Easily adjusts for any valve stem length. Slim, rugged jaws give maximum room to remove or replace valve keys. Inside depth of frame: 11½", inside width 8¼", with 10½" opening capacity using offset jaws. 11½" capacity using straight jaws. Allows enough clearance to use this unique Valve Lifter without removing manifold. Designed for use with Split Lock Replacer VT-1054.

No.	Length	Weight
VT-10	14"	6 lbs.

Includes VT-1050, VT-1051 and VT-1052.

EXTRA JAWS FOR VT-10

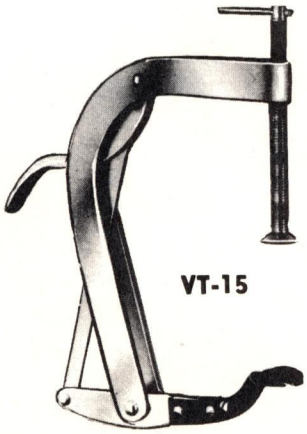
No.	Weight
VT-1050 (Std.)	½ lb.
VT-1051 (Offset)	½ lb.
VT-1052 (Large)	½ lb.



HEAVY DUTY C TYPE VALVE LIFTER

Designed and built on the same principle as the one above. Especially useful on heavy duty work such as tractors, trucks, buses and marine and diesel engines. Takes springs from 1" to 2½" in diameter. Equipped with No.VT-1051 Offset Jaws, No.VT-1050 Straight Jaws and No.VT-1052 Large Straight Jaws. (Illustrated above with VT-10.)

Number	Size	Wgt.
VT-11	10½" x 12"	9 lbs. 8 oz.



VALVE LIFTER FOR V-8 OVERHEAD VALVE ENGINES

For easy one-man valve work on the new high compression car and truck engines with V-8 block and overhead valving. There's no need to remove the exhaust manifold for clearance. Compresses the new extra stiff springs without undue effort or dangerous flexing of the tool frame. Pin operated fine adjusting screw gives fast and easy control of spring compression. A balanced, easy handling lifter. Jaws furnished on tool have extra wraparound feature for safety — fit 1" to 2" dia. springs.

Part No.	Size	Weight
VT-15	8½" x 7"	6 lbs.

"LITTLE HANDY" VALVE LIFTER

"Little Handy" Valve Lifter gets into tight corners and lifts stubborn springs with coil strength up to 300 lbs. — just twice the strength of any common spring you'll meet. Only 8½" long, but the screw-controlled jaws expand to 2⅛" and remain set in any position. Jaws adjust to various spring sizes and expand approximately parallel in vertical plane, lifting spring squarely and allowing easy replacement of valve stem keys.

Number	Length	Wgt.
VT-1002	8½"	1 lb. 4 oz.

VT-1002

FORD V-8 AND MERCURY VALVE LIFTER

Do two jobs with this tool, it is dual purpose and thus you save money. Insert fork under valve guide, pull upward and remove horse shoe lock. Reverse tool, push down on handle and guide blocks come out. Forged of tough alloy steel, properly hardened and tempered.

No.	Length	Weight
VT-1003	24"	1 lb. 15 oz.

VT-1003

VALVE LIFTER-PULLER

A new Lifter-Puller specially designed to go down through the push rod holes and expand inside the lifter to pull it out of the bore. On some engines where there is room between the intake manifold and head, and when using this tool, it is not necessary to remove the intake manifold to replace lifters.

Number	Length	Weight
ET-8000	12¾"	2 ozs.

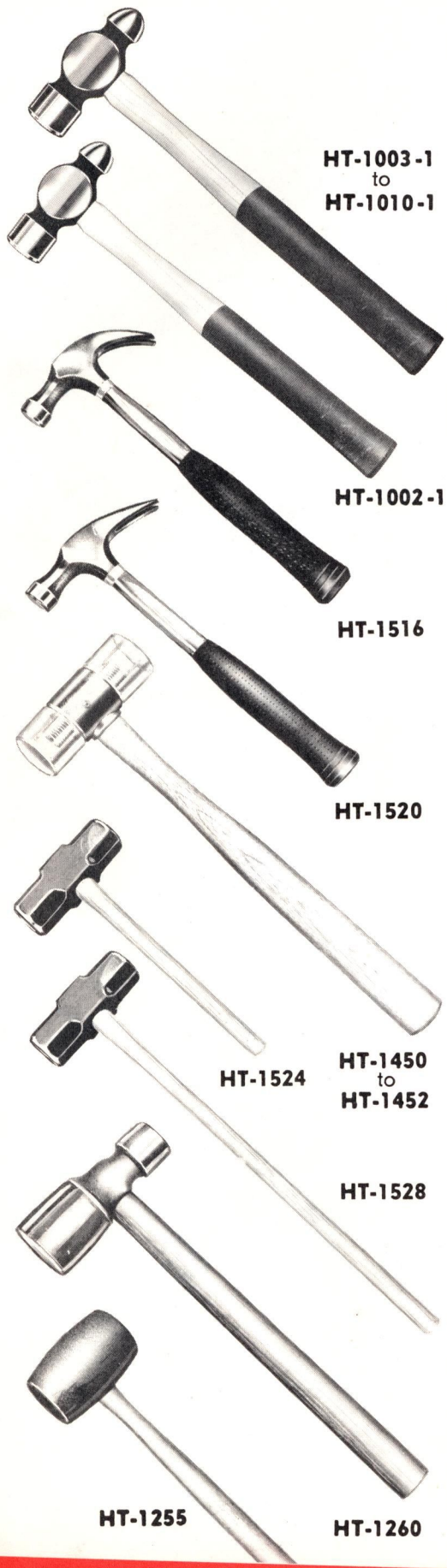
ET-8000

SPLIT LOCK REPLACER

The perfect, compact Tool for replacing all split type valve keys on single and double-grooved valve stems and where the new convex locks are used. Requires a minimum of working space. Sliding base prevents keys dropping into motor. It's very simple to load. Designed for easy operation with VT-1002 Valve Lifter or "C" Type Lifter with VT-1050 straight jaws, or any good valve lifter.

Number	Length	Wgt.
VT-1054	8"	5 oz.

VT-1054



BALL PEIN

A perfectly balanced Hammer with drop forged head and sturdy handle for a long life of service.

Number	Head Weight	Overall	Handle Number	Wgt.
HT-1003-1	8 oz.	13"	HT-1203-1	14 oz.
HT-1004-1	12 oz.	14"	HT-1204-1	18 oz.
HT-1005-1	16 oz.	14½"	HT-1205-1	22 oz.
HT-1006-1	20 oz.	15"	HT-1206-1	28 oz.
HT-1007-1	24 oz.	16"	HT-1207-1	30 oz.
HT-1008-1	32 oz.	16"	HT-1208-1	40 oz.
HT-1009-1	40 oz.	16"	HT-1209-1	50 oz.
HT-1010-1	48 oz.	16"	HT-1210-1	60 oz.

GASKET HAMMER

Necessary for work on gaskets where light, controlled contact is required.

Number	Head Ounces	Size	Overall	Handle Number	Wgt.
HT-1002-1	3½	6/0	11"	HT-1202-1	5 oz.

ALL STEEL NAIL HAMMERS

Heads are forged from special analysis steel and "super-heat-treated" twice for full strength and durability. Exclusive "rim-tempered" process assures greater safety and hardness on the rim of the hammer to prevent chipping when striking a foul blow — has a non slip CUSHION grip handle.

Part No.	Style	Weight
HT-1516	Curved Claw	16 oz.
HT-1520	Ripping Claw	16 oz.

SOFT FACE HAMMERS

Blackhawk Soft Face Hammers have a tough, molded plastic, replaceable head. This type Hammer is particularly useful in body and fender work.

Number	Head Ounces	Tip Diameter	Wgt.
HT-1450	6	⅞"	7 oz.
HT-1451	8	1"	8 oz.
HT-1452	12	1 3/16"	15 oz.

TIPS FOR SOFT FACE HAMMERS

Number		Wgt.
HT-1450T	Tip for Hammer HT-1450	2 oz.
HT-1451T	Tip for Hammer HT-1451	2½ oz.
HT-1452T	Tip for Hammer HT-1452	6 oz.

SLEDGES — HAND AND HEAVY DUTY DOUBLE HEAD

Blackhawk Sledges have fitted high grade hickory handles, power driven and machine wedged. Handles are finished with a clear lacquer.

Part No.	Length	Weight
HT-1524 (Hand)	16"	4 lbs.
HT-1528 (Heavy Duty)	32"	8 lbs.

STEEL AND RUBBER HAMMER

A very popular and handy tool, especially on body and fender work.

Number	Length	Wgt.
HT-1260	14"	2½ lbs.
HT-1261 Extra Rubber Heads		

RUBBER MALLET

High grade live rubber head molded on the handle which has corrugated ridges to doubly secure head on handle.

Number	Length	Wgt.
HT-1255	15"	20 oz.

BODY TOOL EQUIPMENT

Ever-changing body styles require Tools that keep pace with these changes and assure accurate work. The professional mechanic appreciates new designs in this Black hawk Line as soon as he feels the perfect balance of these Hammers. The new angles on the Hammer faces fit the new bodies perfectly — thus making better repairs easier, quicker and more profitable.

SPECIAL BUMPING HAMMER

The small pein and flat polished head of this Hammer makes it a fine combination tool for driving up small dents and smoothing.

Number	Ounces	Head	Rd. Face	Point Radius	Length Pointed End	Wgt.
BT-1150	7	3 1/2"	1 3/16"	5/32"	7/16"	12 oz.

LIGHT BUMPING HAMMER

For work on late model cars which have fenders of lighter weight steel, this Light Bumping Hammer is faster and safer.

Number	Sq. Face	Length Overall	Head Ounces	Head	Rd. Face	Wgt.
BT-1151	1"	12 1/4"	9	3 1/2"	1 1/4"	12 oz.

DINGING HAMMER

A strong Hammer built to withstand the severe usage encountered in general bumping and dinging, including the high crown panels where heavier blows are necessary. The long head permits dinging over the obstructions where the shorter Hammers cannot reach.

Number	Head Ounces	Rd. Faces	Head Length	Wgt.
BT-1153	13	1 1/4" and 1 3/4"	6"	14 oz.

SERRATED FACE SHRINKING HAMMER

A well balanced Shrinking Hammer with one serrated round face and one plain square face. Excellent for rough bumping on high and low crown surfaces. Round, serrated face is 1 1/4" dia. Square face is plain and 1 1/8" square. Head is 4" long.

No.	Weight
BT-1154	10 oz.

FINISHING HAMMER

Another very popular Hammer because of the medium long point for working under fenders. For finishing work, it has a highly polished face, 1 5/8" in diameter.

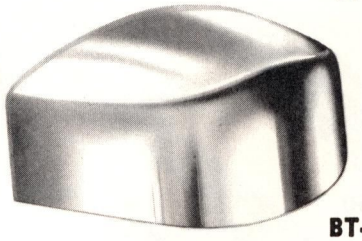
Number	Ounces	Head	Rd. Face	Handle	Wgt.
BT-1157	9	6 3/4"	1 5/8"	11 1/2"	1 lb.

HAMMER HANDLES

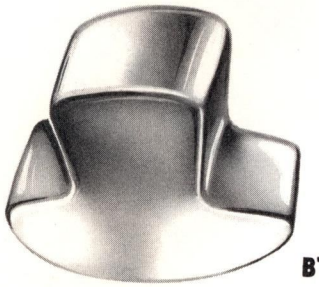
Handles are all made of first grade, second growth white Hickory. Have perfect, comfortable grip. Lacquered. Handles are 13" long for all Blackhawk Body Hammers.

No.	Length	Weight
HT-1219	13"	1 oz.

BT-1058

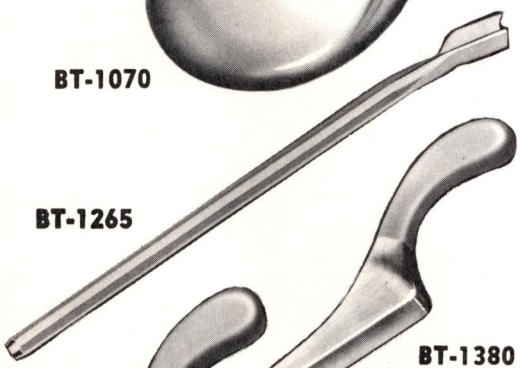


BT-1059



BT-1060

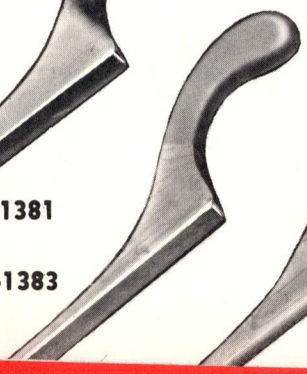
BT-1070



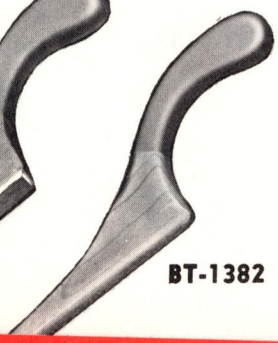
BT-1265

BT-1380

BT-1381



BT-1383



BT-1382

DROP FORGED DOLLY BLOCKS

These Blackhawk Dolly Blocks are Drop Forged, from selected steel having extreme strength and ductility and are easy on the Hammer. Ground with the utmost care, finished and oil polished, for a smooth, perfect surface.

TOE DOLLY BLOCK

This Dolly is very adaptable because of its thinness and length. It also has a large, perfectly flat face which is very useful in dinging lower hood quarters and other flat panels.

Number	Length	Width	Thickness	Wgt.
BT-1058	4¾"	2¼"	1 1/16"	2½ lbs.

HEEL DOLLY BLOCK

The design of this Dolly makes it very adaptable in corners and wide radii.

Number	Length	Width	Thickness	Wgt.
BT-1059	3⅛"	2⅜"	1 7/16"	2 lbs.

GENERAL PURPOSE DOLLY BLOCK

Has several differently crowned working faces and two flanging and beading lips.

Number	Length	Width	Thickness	Wgt.
BT-1060	2¾"	3"	2¼"	2¼ lbs.

FENDER DOLLY BLOCK

Especially useful on those extra heavy gauge truck and passenger car fenders which resist the blows of lighter Dollies. Fits the hand comfortably so that the fingers are protected from injury.

Number	Length	Width	Wgt.
BT-1070	3¼"	3¼"	3¼ lbs.

PANEL CUTTER

Removes a very thin slice from panel. Is easily guided and turns in short radius. Projecting top rides on panel to prevent slipping through. Made of alloy steel, drop forged. ⅜" stock.

No.	Length	Weight
BT-1265	10"	4 oz.

SOLDER PADDLES

Made of choice hard maple for long lasting, clog-free service. Treated with tallow to preserve.

No.		Weight
BT-1380	Standard Solder Paddle, 4" x 1 ⅜".	1 oz.
BT-1381	Bulldog Solder Paddle, 4" x 1 ¾".	2 oz.
BT-1382	Valley Solder Paddle, round 5" x 1".	1 oz.
BT-1383	Long Solder Paddle, 6" x 1 ⅜".	2 oz.

HEAVY DUTY GEAR PULLERS

The Pullers illustrated and described on this page comprise a group which will handle the majority of pulling jobs a repair shop will be called upon to perform. Jaws and blocks are of drop forged chrome molybdenum steel, oil tempered to stand hard service. The Power-Pitch thread on the forcing screw provides one third more power than the conventional V-type thread.

SENIOR GEAR PULLER
8" MAXIMUM SPREAD

These Blackhawk non-slip Gear Pullers have a maximum reach of 5½" and will handle work up to 8" in diameter including flywheels, pulleys, gears and other parts where it is necessary to fit the arms between spokes where other Pullers cannot function. They apply a direct pull parallel with the center by virtue of their 3-point grip.

Number	Capacity Dia.	Wgt.
ET-1108-1	8"	5 lbs.

TWO-ARM PULLERS

The Reversible Jaw type is especially applicable in the automotive field for removing bearings, small timing gears, pinions, and generator and magneto gears. The great advantage of these two units is that with them you actually have two Pullers in one since the jaws can be reversed.

WITH SINGLE ARMS

No.	Max. Length Reach	Max. Width Reach	Capacity Tons	Weight
ET-1008	5½	0 to 7	5	2 lb. 2 oz.
ET-1011	8½	0 to 10	9	4 lb. 14 oz.
ET-1013	10	0 to 12	15	10 lb. 7 oz.

REVERSIBLE JAW GEAR PULLER
8" MAXIMUM SPREAD

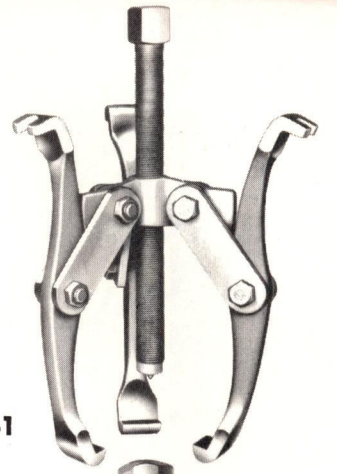
These two-jaw Pullers owe their popularity to the wide range of work they perform. The reversible arms provide thin grips at one end, which can be applied in restricted places; and slotted grips at the other, which conveniently engage cap screws where gears or parts having tapped holes are being removed. The wide range of work encompassed by this Tool embraces truck, bus, tractor and aircraft.

Number	Capacity Dia.	Wgt.
ET-1010	8"	4 lbs.

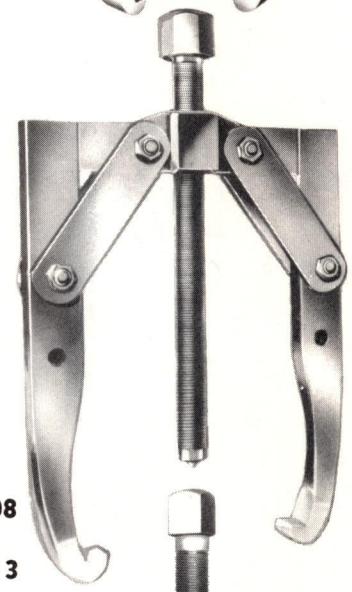
JUNIOR GEAR PULLER
6" MAXIMUM SPREAD

A smaller edition of Blackhawk Model ET1108-1 Wheel Puller. Made of the same quality materials, with adjustable arms and featuring the non-slip design wherein the tougher the pull the harder the grip.

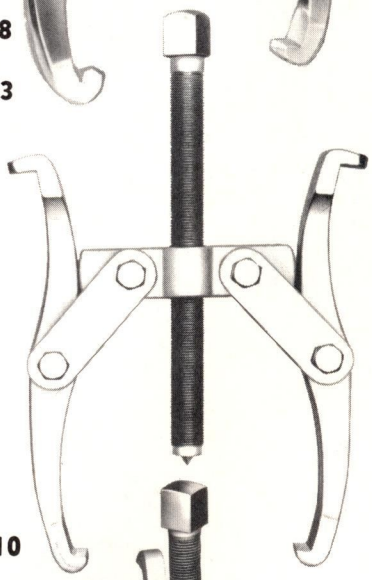
Number	Capacity Dia.	Wgt.
ET-1105-1	6"	2½ lbs.



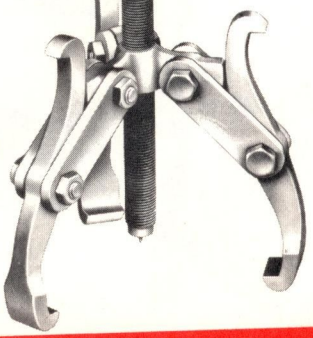
ET-1108-1



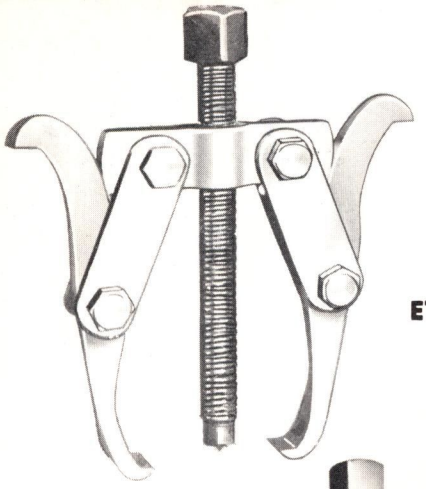
ET-1008 to ET-1013



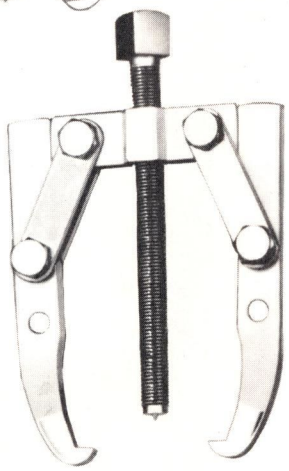
ET-1010



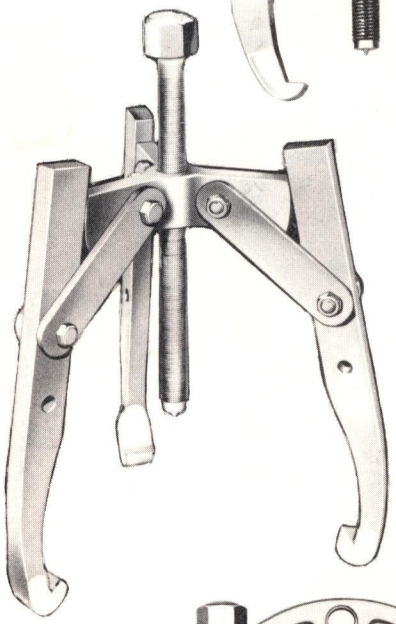
ET-1105-1



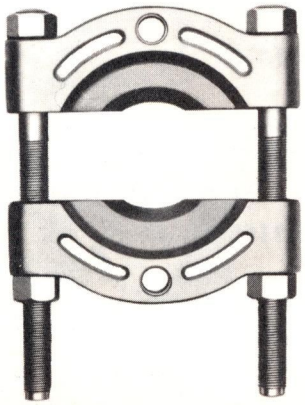
ET-1007



ET-1005



ET-1106 to ET-1111



ET-1205 to ET-1211

REVERSIBLE GEAR PULLER 6" MAXIMUM SPREAD

A smaller size model of the Blackhawk No. ET-1010 Reversible Jaw Gear Puller which is especially popular where work includes removal of magneto and generator gears and bearings, timing gears, pinions and other small parts that are frequently difficult to remove. The reversible arms, readily changed by removal of link bolts, broaden the usefulness of this non-slip grip Puller.

Number	Dia. Spread	Wgt.
ET-1007	6"	1¾ lbs.

MIDGET GEAR PULLER

The Midget Gear Puller has a patented gripping feature that affords many advantages. The thin jaws and their great strength give you a Tool that is at once Safe and Sure. The power-pitch threads on the forcing screw contribute more power than the conventional V-thread. ET-1005 is invaluable for pulling small gears, bearings, and armature arbors. It slips with ease through armature bearing races. Safer because it doesn't slip . . . **the tougher the pull, the harder it grips.**

Number	Capacity	Wgt.
ET-1005	4"	14 oz.

ALL BLACKHAWK PULLERS ARE INTERCHANGEABLE

If you have a Two-Arm Puller you only need to get the three-way forged head and one arm assembly and you have a Three-Arm Puller. All parts of corresponding Pullers are interchangeable and thus you have the advantages of both types.

WITH SINGLE ARMS

Number	Max. Length Reach	Max. Width Reach	Capacity Tons	Weight
ET-1106	5½	0 to 8	6	3 lb.
ET-1109	8½	0 to 10	9	4 lb. 5 oz.
ET-1111	10	0 to 12	15	14 lb. 9 oz.

TAPERED BEARING ATTACHMENT

Another exclusive and improved Blackhawk Tool design to assist automotive mechanics in doing better work, easier and more quickly. Not only will this Blackhawk Bearing Attachment perform every job of separating you'll be called upon to do, but it will do it surely and stand up under heavy work. The stud holes, spotted in the center of each jaw afford precise positioning of the two jaws of the Hub Puller. This Bearing Attachment is especially recommended for use with Blackhawk Hub Pullers Nos. ET-1156 ET-1010 and ET-1007

Number	Reach Min.	Reach Max.	Width	Use with Blackhawk Pullers No.	Use with Blackhawk Pullers No.
ET-1205	0	2¼	2¼	ET-1007, ET-1010,	ET-1322
ET-1207	0	4¼	4¼	ET-1010, ET-1013,	ET-1305
ET-1209	1	5¾	6	ET-1013, ET-1016,	ET-1310
ET-1211	1	9	6	ET-1013, ET-1016,	ET-1310

FLANGE TYPE WHEEL PULLER

This Flange Puller covers all major cars and small trucks with flange type axles. The bold circle range is from 4½" to 5½". The 5½ pound hammer with an overall length of 22" can also be used as a regular wheel and hub puller. Puller shipped with ET-1160-1 Yoke only. Shipping weight 10 lbs.

Number	Description
ET-1160	Complete Puller
ET-1160-1	Universal Yoke for Chevrolets, Pontiacs and Fords
ET-1160-5	Yoke for Valiant and Lancer
ET-1160-6	Adapter required to remove the Axle Shaft on Rambler and Chrysler products except Valiant and Lancer

PILOT BEARING PULLER

Used to remove pilot bearings on motors, generators and magnetos. The hooked legs of the Puller are inserted behind the bearing and are spread by screwing down the long, main screw. Screw is locked in place by hexagonal nut on top plate. This prevents slipping of the legs. A few cracks of the sliding hammer and the bearing comes out. Jaw opening ½" to 1½".

Number	Weight
ET-1068	3 lb. 15 oz.

SLIDE HAMMER PULLER SET

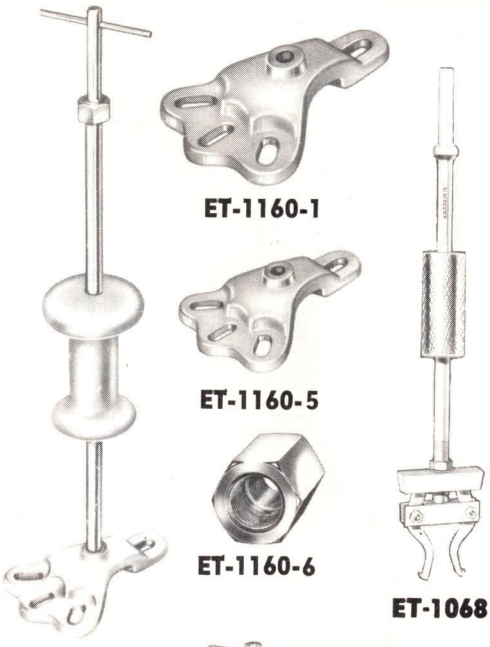
The Slide Hammer Puller Set shown at the left is a universal Tool that is easily and quickly adapted to outside and inside pulling operations. It can be used as a two-way or three-way puller by simply changing the Two-Way Block, ET-1153-2 to the Three-Way Block, ET-1135-3 and inserting Jaws, ET-1135-1 as shown in the small illustrations alongside the complete assembly. Reversing the Cone, ET-1135-4 arranges the Tool for inside pulling jobs. Your Slide Hammer Puller Set will find plenty of use in pulling gears, bearings, pinions, grease retainers, oil seals, bearing outer races and many other troublesome jobs. Capacity with 2-Jaws—Outside: 1" to 4½", Inside: 1¼" to 3⅜". Capacity with 3-Jaws—Outside: 1½" to 4½", Inside: 1-5/16" to 4¾".

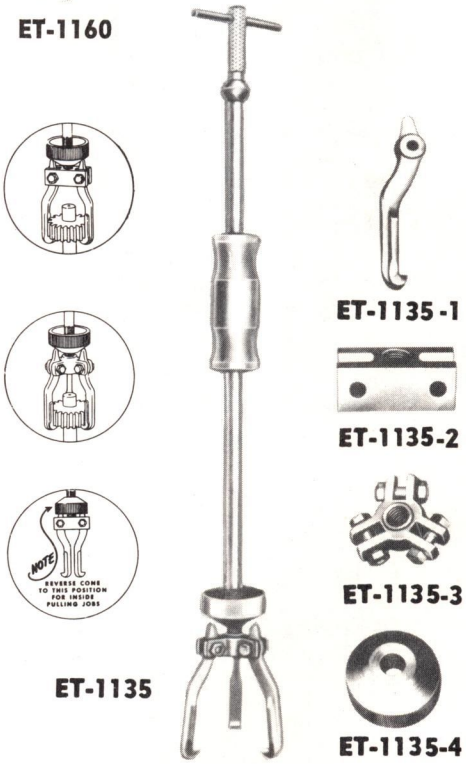
Number	Complete Slide Hammer Puller Set	Wgt.
ET-1135	including Slide Hammer Assembly,	8 lbs.
ET-1135-1	1 Puller Arm	1 lb.
ET-1135-2	Two-Way Puller Head	½ lb.
ET-1135-3	Three-Way Puller Head	½ lb.
ET-1135-4	Adjusting Cone	1¼ lbs.
ET-1066	Slide Hammer Assembly Only	4¾ lbs.

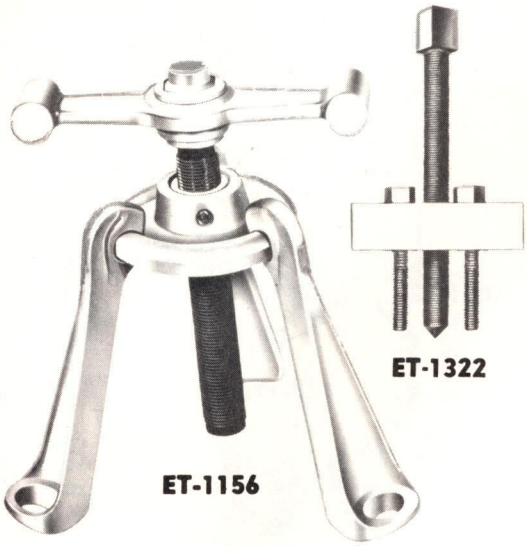
HARMONIC BALANCER PULLER

This puller is designed to pull Balancers, Vibration dampers, Pulleys or any gear with tapped holes. The four slots in the yoke, allow the use of this tool in either two or three hole applications. The Floating Swivel prevents damage to shaft ends. Included, are the necessary Side Screws — (3) ⅜-24 x 2" — (3) 5/16-18 x 2" — (2) ⅜-16 x 4". Cadmium Plated.

Number	Weight
ET-1330	2½ lbs.







ET-1322

ET-1156

GEAR AND PULLEY PULLER

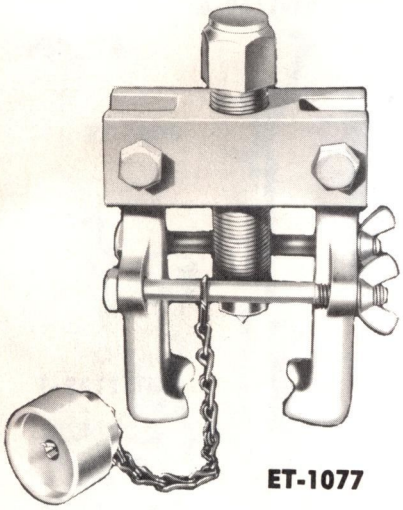
Designed for pulling timing gears, bearings and races on generators and other parts such as Chevrolet fan pulleys, etc. The slotted block permits a wide range of adjustments. The screw is long enough to reach through the crank hole and remove the fan pulley without dismounting the radiator. This Tool is especially useful when used with ET-1205 in many push-pull operations.

Number		Wgt
ET-1322	Complete as illustrated with 6" Screw	1½ lbs.
ET-100322	6" Screw for ET-1322	
ET-1322P-3	13" Screw for ET-1322	

UNIVERSAL HUB PULLER

Here you have the best designed and most practical Hub Puller on the market today. This is because the sliding arms are easily and quickly adjustable to fit any type of hub regardless of the number of wheel studs used. Works on any wheel where hub bolt circle does not exceed 7½".

Number		Weight
ET-1156	Wheel Hub Puller Set	10 lbs.



ET-1077

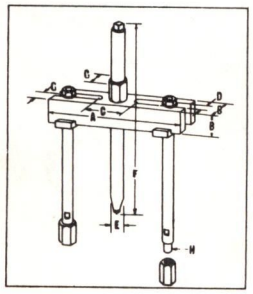
PITMAN ARM AND FORD HUB PULLER

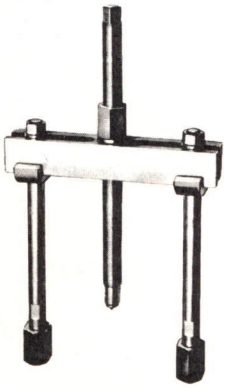
A husky, powerful Puller designed specially for removing truck Pitman arms. Can be used on almost all makes of trucks. Does double duty in that it can also be used as a Ford Hub Puller. As illustrated, two shaft protectors are furnished with the Puller so that the shaft will not be marked or damaged in any way.

No.	Weight
ET-1077	5 lb.

BLACKHAWK PULLERS

Used to remove or replace bearings, gears, pinions, pulleys, wheels or bushings. The interchangeable legs can be moved from side to side to accommodate any desired centers. Different length legs are available so that you have a tailor-made unit for your particular job. The legs are threaded on the ends as shown and can be used with such items as the tapped Puller Attachments.





ET-1305
ET-1310

SPECIFICATIONS OF BLACKHAWK PULLERS

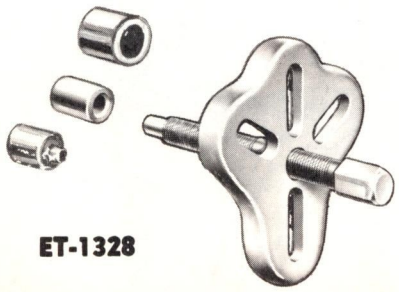
No. Complete Unit	A	B	C	D	E
ET-1305	8¼	1⅜	2	½	* ⅝-18
ET-1310	13½	2	3½	¾	1-14

	F	G	H	Weight
ET-1305	12	1		7 lb.
ET-1310	13	1½	⅝-18	20 lb. 12 oz.

* Pointed end threaded ⅝" SAE, ¾" long. Balance of screw ¾"-16 thread.

PULLER LEGS AVAILABLE

No.		Length	Weight
ET-1355	**For Puller No. ET-1305**	6¾"	
ET-1368	**For Puller No. ET-1310**	9½"	



ET-1328

STEERING WHEEL PULLER

Any steering wheel that is tapped to take cap screws can be easily and quickly removed with this new Steering Wheel Puller. Excellent too, for removing flanges, pulleys, etc. For use over a hollow shaft, a nipple is supplied to provide a base for the screw. Also includes Adapters for Buick and Chrysler Products.

Number		Weight
ET-1328		1 lb.

2 JAW PULLERS

Designed to accomplish a wide range of pulling jobs with fewer parts. All Jaws and Adapter Assemblies can be used on either the 6" or 9" yoke. Jaws can be used for inside or outside pulling and can be quickly and easily interchanged. Provides straight line pulling for a great number of uses.

Number	Description	Capacity	Weight
ET-1805	9" 2 Jaw Puller	0" to 9"	8¾ lbs.
ET-1806	6" 2 Jaw Puller	0" to 6"	5¾ lbs.

EXTRA JAWS FOR 2 JAW PULLERS

Number	Description	Number	Description
ET-1816	Cap Screw Jaws	ET-1818	5½" Jaws
ET-1817	4½" Jaws	ET-1819	11" Jaws

PULLER ACCESSORIES

Number	Description	Number	Description
ET-1807	6" Yoke	ET-1812	Clevis Assembly
ET-1808	Clevis Pin	ET-1813	Clevis
ET-1809	Knurled Nut	ET-1814	9" Yoke
ET-1810	8½" Jaws	ET-1815	Center Screw for 9" Yoke
ET-1811	Center Screw for 6" Yoke		

UNIVERSAL JOINT TOOL

This tool removes and assembles Universal Joints on the majority of passenger cars and light trucks with a minimum amount of time and effort. The key to this method is in the use of the Special Adaptor which allows the bearing cups to be removed in one simple and fast operation. A horseshoe shaped spacer is provided for use on certain types of joints having a longer than normal skirt.

Part No.	Weight
ET-1329	5¾ lbs.

BODY DENT PULLER

This time saving Dent Puller will remove auto body creases and dents easily without disturbing upholstery, headliners and body hardware. Removing inner panels of dented area is also eliminated. Punch or drill hole in dented panel, insert self-threading screw or hook and with a few raps of the sliding hammer return metal to its original shape. Sturdy plastic handle and cadmium finished body.

Part No.		Length	Weight
ET-1710	Complete Tool	13"	4 lbs.

BATTERY TERMINAL AND GENERATOR BEARING PULLER

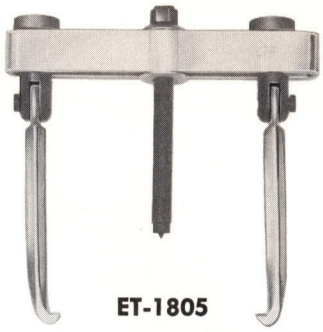
Designed to engage either below or on the sides of the cable terminals and lift even badly corroded terminals with no harm to the battery case or posts. The swivel is so versatile it also can be used as a generator bearing puller and magneto gear puller.

Number	Wgt. Pkg.
ET-1071	10 oz.

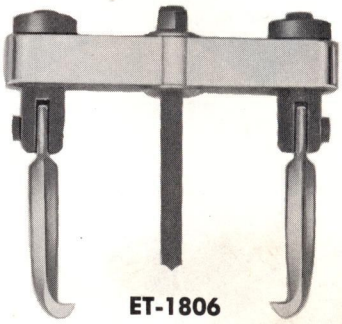
SIMPLIFIED BATTERY TERMINAL PULLER

This drop forged, alloy steel, heat treated Puller is designed to pull the battery cable from the post without injury to cable or post. Slip jaws under terminal, turn handle and cable is loose. Jaws are wide enough and thin enough to handle majority of cars and trucks.

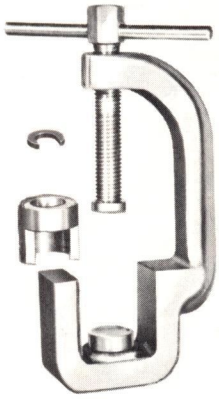
No.	Weight
ET-1700	6 oz.



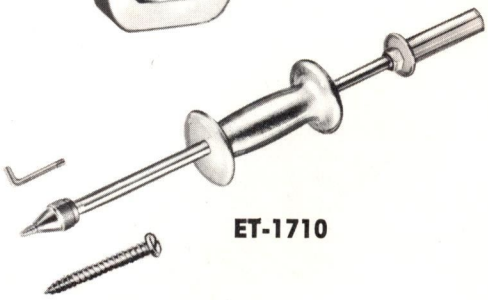
ET-1805



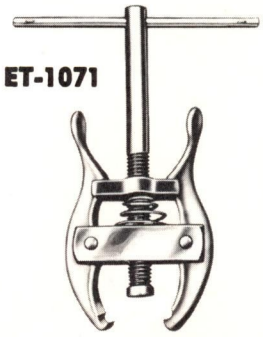
ET-1806



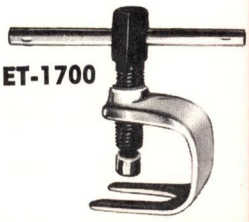
ET-1329



ET-1710

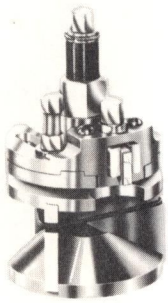


ET-1071



ET-1700

ZT-2875



ZT-2175

ZT-3007

BUSHING REMOVER AND REPLACING SET

Drives bushings from all passenger cars, buses and a large percentage of trucks and tractors.

Number	Drivers Included Inside Diameter	Outside Diameter
ZT-2847	3/8"	7/16"
ZT-2848	13/32"	7/16"
ZT-2849	7/16"	1/2"
ZT-2853	9/16"	11/16"
ZT-2853A *	39/64" — 5/8"	43/64" — 11/16"
ZT-2854	5/8"	3/4"
ZT-2855	11/16"	13/16"
ZT-2856 **	47/64" — 3/4"	55/64" — 7/8"
ZT-2857	13/16"	15/16"
ZT-2858 ***	55/64" — 7/8"	63/64" — 1"
ZT-2859	15/16"	1 1/16"
ZT-2860	1"	1 1/8"
ZT-2861	1 1/16"	1 3/16"
ZT-2862	1 1/8"	1 1/4"
ZT-2862A	1 3/16"	1 5/16"
ZT-2863	1 1/4"	1 3/8"
ZT-2864	No. 1 driver (small)	
ZT-2865	No. 2 driver (medium)	
ZT-2866	No. 3 driver (large)	
ZT-2867	No. 1 and 2 driver nut	
ZT-2868	No. 3 driver nut	

*Will drive Chev. 6 water pump bushing.
**Will drive Chev. 6 king bolt bushing.
***Will drive Chev. 6 king bolt bushing (knee action type) and Chev. 6 piston pin bushing, size .866".

Set Number	Size of Box	Wgt.
ZT-2875	7 3/4" x 4 1/2" x 1"	4 lbs. 5 oz.

CYLINDER RIDGE REAMER

A Ridge Reamer engineered to work perfectly on all type cylinders — angle block, short stroke; conventional; 3" to 5" range — WITHOUT READJUSTMENT.

Part No.	Range	Weight
ZT-2175	3"-5"	2 lbs. 10 oz.
ZT-2175-1	Carbide Cutter	1/2 oz.

PRECISION PILOT REAMERS

You must see this Set to appreciate its great advantages in reaming King Bolt, Spring Shackle, Pitman Arm, Piston Pin, Water Pump and Tie Rod Bushings.

Number	Size	Number	Size
ZT-3015	11/16" to 3/4"	‡ZT-3019	.915" to 1"
* ZT-3016	.730" to 13/16"	§ ZT-3020	.985" to 1 1/16"
ZT-3017	13/16" to 7/8"	ZT-3021	1 1/16" to 1 1/8"
† ZT-3018	.860" to 15/16"		

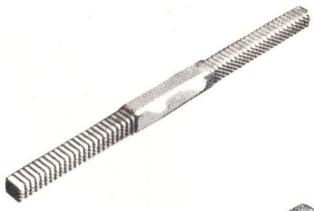
* ZT-3016 reams Chev. 6 King Bolt Bushing, size .735"
† ZT-3018 reams Chev. 6 Piston Pin Bushing, size .866".
‡ ZT-3019 reams Chev. 6 Truck King Bolt Bushing, size .922".
§ ZT-3020 reams Chev. 6 Piston Pin Bushing, size .991".

Set. No.	Size of Box	Wgt.
ZT-3007	12 1/2" x 8" x 1 1/2"	12 lbs.

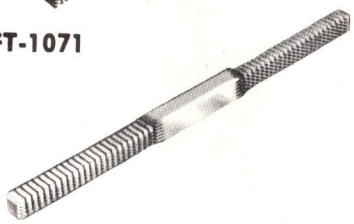
THREAD RESTORER FILES

Restores damaged or rusted threads on bolts, studs or shafts.

Part No.		Length	Weight
FT-1071	Thread Restorer File for 11, 12, 13, 14, 16, 18, 20 and 24 threads per inch.	10"	4 oz.
FT-1072	Thread Restorer File for 9, 10, 12, 16, 20, 27, 28 and 30 threads per inch.	10"	4 oz.



FT-1071

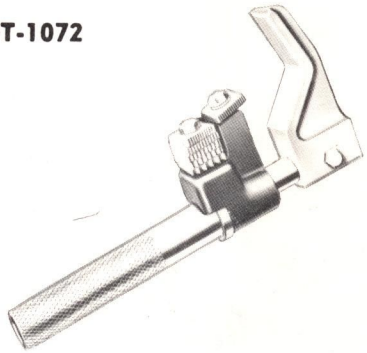


FT-1072

UNIVERSAL OUTSIDE THREAD CHASER

A time saver that will restore battered and damaged threads on axle housings, axle shafts, cages and similar units without removing them from the vehicle or assembly. Works on units from 1¼" to 5" outside diameter. Has 6 individual dies. Two of them have four cutting edges for 8, 10, 12 and 14 threads per inch and the other has 16, 18, 20 and 24 threads per inch. The four two sided dies are for 11-11½, 4-5, 6-7, and 7½-9 threads per inch.

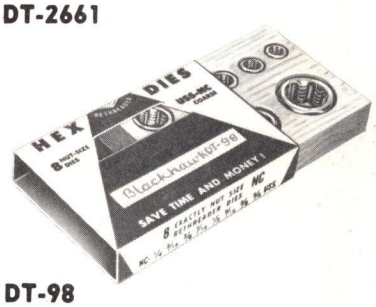
Part No.	Weight
DT-2661	3 lb. 4 oz.



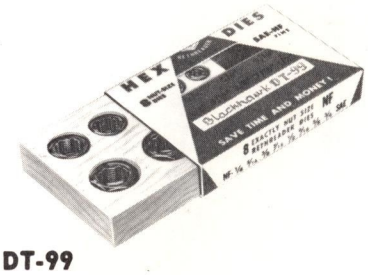
DT-2661

RETHREADER DIE KITS

Part No.		Weight
DT-98	Rethreader Die Kit with eight of the following USS-NC coarse thread sizes: ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", ¾"	9 oz.
DT-99	Rethreader Die Kit with eight of the following SAE-NF fine thread sizes: ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", ¾"	9 oz.



DT-98

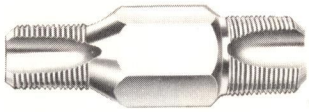


DT-99

SPARK PLUG THREAD CHASERS

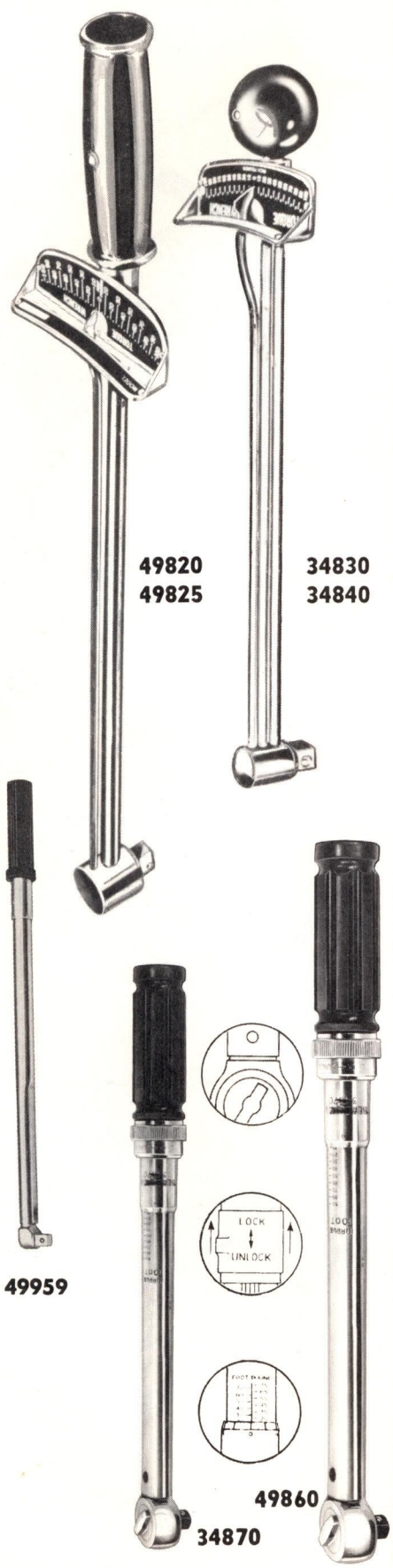
These two Spark Plug Hole Thread Chasers cover all the popular spark plug size openings, insuring tightly seated plugs and accurate torque wrench readings.

Part No.		Weight
DT-2655	Spark plug Thread Chaser with 10mm. and 14mm. threads.	2 oz.



DT-2655

Blackhawk™ HAND TOOLS



Blackhawk torque wrenches are precision measuring instruments designed and manufactured to accurately measure torque. Their purpose is to give the pre-determined final tightness to screws, studs, bolts and threaded parts. Torque tools are used to determine this required tightness as well as to apply it. They are precision tools and should be handled as such.

ROUND BEAM TORQUE WRENCH

This model features the special round bar measuring element. It is an accurate, reasonably priced torque wrench designed for service work in close quarters.

Number	Cap. Ft. Lbs.	Graduations	Length	Drive	Weight
49820	100	5	19¼	½"	2 lbs.
49825	150	5	19¼	½"	2 lbs., 2 oz.

LOW CAPACITY INCH POUND TORQUE WRENCH

Graduations are in Inch Pounds on this model for accurate measurement of low capacities that are recommended for automatic transmission work. This wrench features the special round bar measuring elements that permits use in close quarters.

Number	Cap. In. Lbs.	Graduations	Length	Drive	Weight
34830	100	5	10"	⅜"	¾ lb.
34840	200	10	11"	⅜"	¾ lb.

MICROMETER TORQUE WRENCH

New micrometer adjusting torque wrench: Torque value is preset. Wrench signals audibly when proper torque is attained. Popular for automotive engines, aircraft, and automatic transmission work. Avoid shearing by giving a pre-determined final tightness to screws, studs, bolts and threaded parts. Torque can be measured in either left or right direction which allows you also to measure "Back-Off" Torque. Because of the high capacity range of these, one wrench covers most applications . . . A special feature of the Blackhawk wrench. All Blackhawk torque wrenches are manufactured to federal standards and have been tested for 25,000 operations. Made of the highest quality heat-treated alloy steel. Parts are corrosion proofed. Individually packaged.

Number	Drive	Capacity	Weight
34870	⅜	100 ft. lb.	1 lb. 12 oz.
49860	½	250 ft. lb.	2 lbs. 8 oz.

½" DR. MICROMETER TORQUE WRENCH

A new, unique ½" Drive Micrometer Torque Wrench featuring preset torque value and 5% full scale. 150 lb. capacity, graduations — 1 ft. lb. The spring-loaded head gives an audible click when the set torque value is reached. Long 20-inch reach for hard-to-get-at areas.

Number	Capacity	Weight
49959	150 lb.	2½ lbs.

HEAVY-DUTY RIGID FRAME DIAL TYPE TORQUE WRENCHES

These rugged wrenches have a removable lug which fits either upper or under side of wrench allowing operator to stand in normal position at all times to take dial readings. All Blackhawk Torque Wrenches work for either right or left hand threads. A second needle, called the "Tell-Tale Needle", remains at maximum torque after tension is released permitting careful check of reading after pulling has ceased. Shipped with metal storage case.

175 FOOT-POUNDS CAPACITY 1/2"-DRIVE

This is the torque wrench to use in tightening bearing caps, flanged connections and cylinder heads on marine and aviation engines, tractors and similar equipment.

Number	Length	Grad.	Weight
49969	19"	5' lbs.	2 lbs.

600 FOOT-POUNDS CAPACITY 3/4"-DRIVE

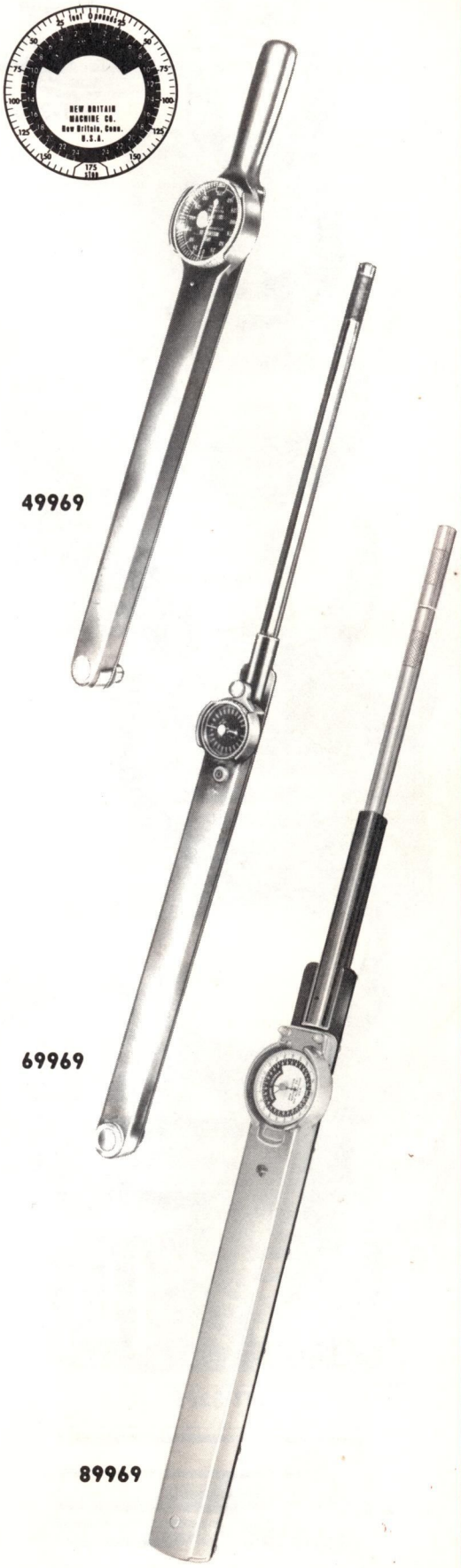
This capacity range has wide adaptability in power plants, the diesel engine field, steam fitting work and in many operations in the marine, railway and petroleum fields. Furnished with removable handle.

Number	Length	Grad.	Weight
69969	44"	10' lbs.	7 lbs.

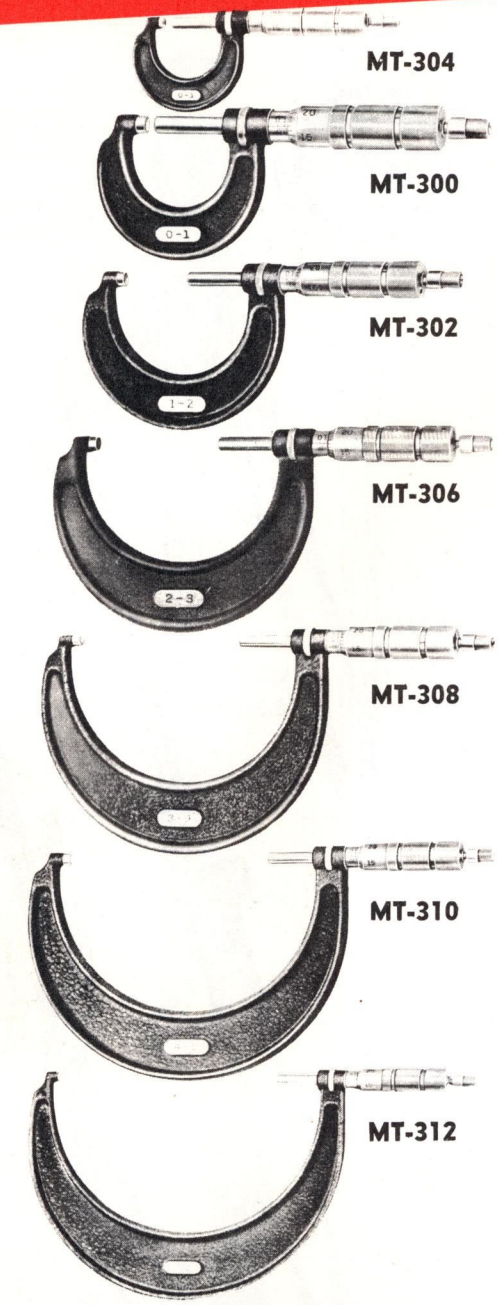
1000 FOOT-POUNDS CAPACITY 1"-DRIVE

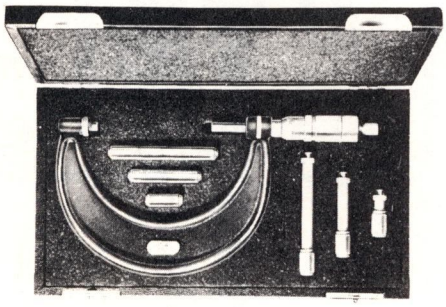
This is the giant of the torque wrenches developed for big jobs such as the refinery, railway, marine, power plant and other fields. Furnished with removable Handle.

Number	Length	Grad.	Weight
89969	51"	25' lbs.	22½ lbs.

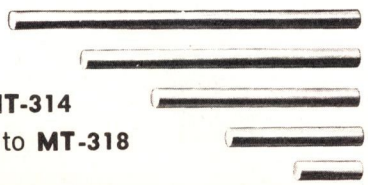


Blackhawk™ HAND TOOLS





MT-320S



MT-314 to MT-318

MICROMETERS

These Blackhawk precision measuring instruments have forged steel frames, enameled, satin chrome finish. Friction stop and clamp ring locknut. All micrometer sets are packed in compact sturdy cases.

BALL ANVIL MICROMETER

Ball anvil micrometer for measuring bearing inserts, tubing, and other curved surfaces.

Part No.	
MT-304	Measuring range: 0"-1" Graduations: .001"

OUTSIDE MICROMETER

Part No.	
MT-300	Measuring range 0"-1" Graduations: .001"

OUTSIDE MICROMETERS

Part No.	
MT-302	Measuring range: 1"-2" Graduations: .001"

OUTSIDE MICROMETER

Part No.	
MT-306	Measuring range: 2"-3" Graduations: .001"

OUTSIDE MICROMETER

Part No.	
MT-308	Measuring range: 3"-4" Graduations: .001"

OUTSIDE MICROMETER

Part No.	
MT-310	Measuring range: 4"-5" Graduations: .001"

OUTSIDE MICROMETER

Part No.	
MT-312	Measuring range: 5"-6" Graduations: .001"

RANGE MICROMETER

This micrometer is ideal for measurements within the 0" to 4" range in automotive repair work. Comes complete with three individual adjustable extensions, and is fitted with knurled collar for easy handling.

Part No.	
MT-320S	Range: 0"-4" Graduations: .001"

MICROMETER STANDARD TEST GAUGES

These gauges are made of high quality alloy steel. They are hardened and ground to resist wear and give long life. Plated to prevent rusting.

Number	Description
MT-314	1" Standard Test Gauge (or 25mm)
MT-315	2" Standard Test Gauge (or 50mm)
MT-316	3" Standard Test Gauge (or 75mm)
MT-317	4" Standard Test Gauge (or 100mm)
MT-318	5" Standard Test Gauge (or 125mm)

SPECIAL AUTOMOTIVE MICROMETER

Special designed micrometer for measuring connecting rod journals of most automobiles and trucks. Locating the graduations on the underside of the barrel eliminates removing the micrometer from its measuring position to take the reading.

Part No.	
MT-322-C	Range: 1½"-2½" Graduations: .001" 2" standard test gage

SET OF OUTSIDE MICROMETERS

Complete set of four outside micrometers, graduated in thousandths. Packaged in a compact sturdy case.

Part No.	
MT-330-S	For measurements from 0" to 4" 0"-1" enameled frame 1"-2" enameled frame 2"-3" enameled frame 3"-4" enameled frame

INSIDE MICROMETERS

Furnished complete with knurled auxiliary extension handle.

Part No.	
MT-332-S	Measuring range: 1½"-8" Graduations: .001"
MT-334-S	Measuring range: 1½"-12" Graduations: .001"

DEPTH MICROMETER

Graduations are placed right side up and can be easily read while in use. Both base and measuring rods are hardened, ground, and lapped.

Part No.	
MT-336-S	Range: 0"-3" 3 measuring rods ⅛" in diameter Base: 7/16" x 2½" Graduated: .001"

DIAL TEST INDICATOR SET

Set consists of precision made jeweled indicator; 3 contact points; 12″ sectional rod for holding indicator; hole attachment for checking bores, concentricity; clamp for attaching indicator to machines, plates; universal rod connector for connection indicators to rods; cap for hole, attachments; 5″ tool post holder for use with lathes. Also can be used in automatic transmission work for determining backlash, and play, concentricity, alignment, out-of-round conditions.

Part No.	
MT-338-S	Range: 0"-.200" Calibrated to 0"-.100", in increments of .001"

4″ VERNIER CALIPER

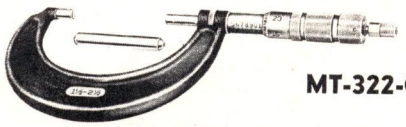
Small, handy pocket type. Calipers measured in 16th of an inch.

Number	Length	Weight
MT-340	6″	3 oz.

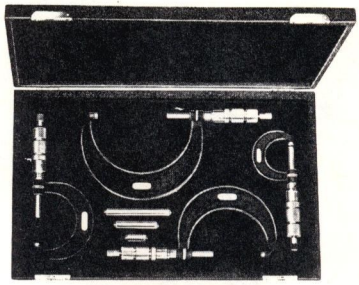
6″ VERNIER CALIPER

Precision Vernier Caliper — photo engraved for ultimate accuracy. Made of hardened stainless steel. Fine adjustment 1/128″ x 1/1000″. Made in Japan.

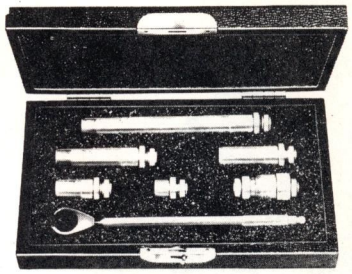
Number	Length	Weight
MT-342	9″	1 lb.



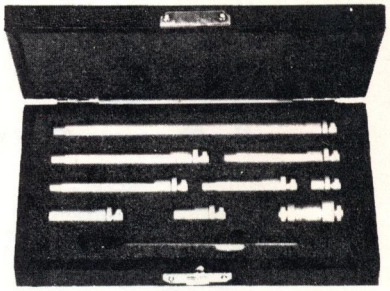
MT-322-C



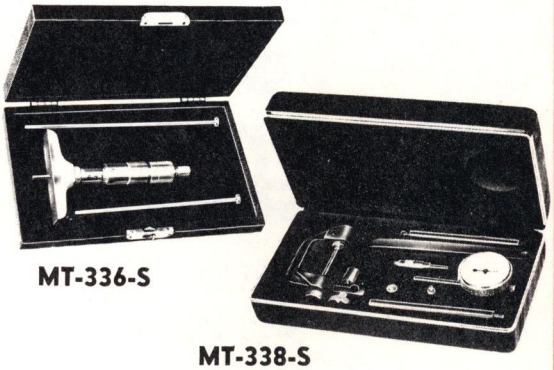
MT-330-S



MT-332-S

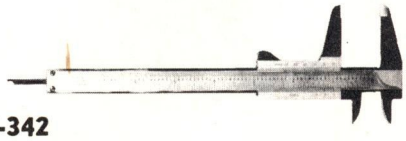


MT-334-S

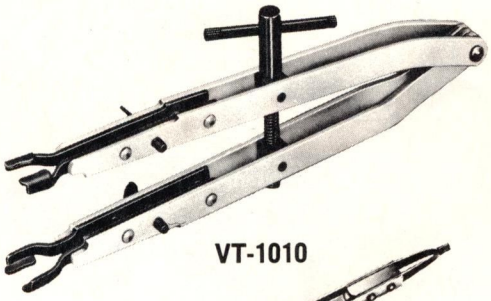


MT-336-S

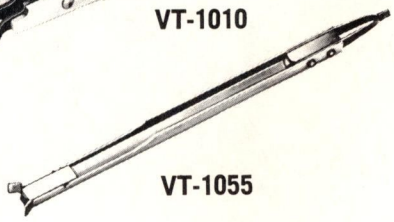
MT-338-S



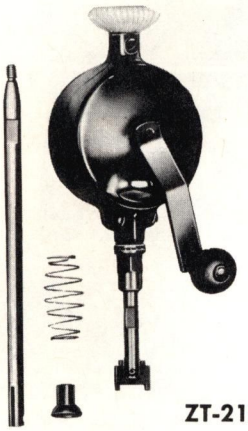
MT-342



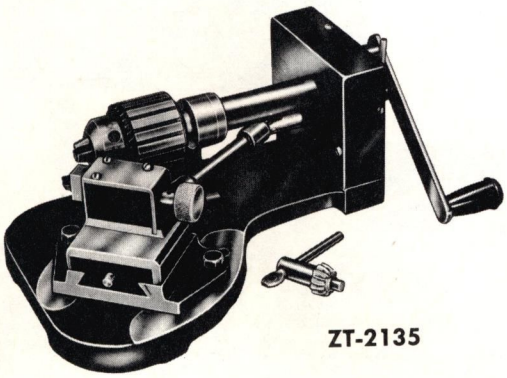
VT-1010



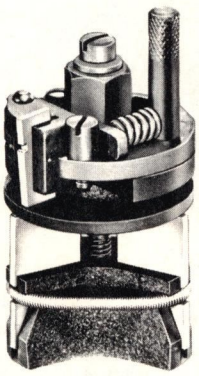
VT-1055



ZT-2125



ZT-2135



ZT-2150

VALVE SPRING COMPRESSOR

The right tool for removing and replacing valve springs of Briggs & Stratton Engines. Its long and slender design enables it to reach into the small areas in which valve springs and retaining keepers are located. The arms are practically parallel being hinged together at one end. Spring steel jaws feature a width adjustment to fit the valve springs. The edges are extremely thin and can be easily forced under and over the ends of the spring, compressing it for removal. Jaws open and close by means of a screw, making ratchets and locks unnecessary.

Number	Weight
VT-1010	1 lb.

MAGNETIC KEY INSERTER

Operates in conjunction with the Blackhawk Valve Spring Compressor No. VT-1010. Approved for Briggs & Stratton Engines. A permanent magnet which holds split valve locks is located at one end. The other end is made to hold the locking pins used in some motors. The tool's narrow design allows operation freely in conjunction with the compressor tool.

Number	Weight
VT-1055	1 oz.

RECIPROCAL VALVE GRINDER

Features a short, smooth, yet quick unbalanced forward and back movement which constantly advances the valve to new positions and insures perfect grinding. Easy action is assured by the ball thrust bearing on the spindle. Long and short self-locking stems, special valve grinding bit, small grinding spring and small vacuum cup are furnished.

Number	Weight
ZT-2125	2 lbs.

VALVE REFACER LATHE

A versatile hand operated valve refacing lathe designed especially for small repair shops not equipped with power tools, or shops without hi-line current. Refaces valves used in small stationary gasoline engines. Compact, yet has ample weight to prevent chatter and vibration; does a complete precision job. Automatic feed is timed for smooth cutting. Lathe handles 30, 45 and 60 degree angle valves with up to 3/8" stems and valve heads to 2 1/4" diameter. Feed shaft has two universal joints. Feed is reversible permitting cuts in either direction. Equipped wtih JACOBS CHUCK, Carbide Cutter and Adjustable Slide. Lathe can be used in vise with steel lugs provided.

Number	Weight
ZT-2135	15 lbs.

RIDGE REAMER

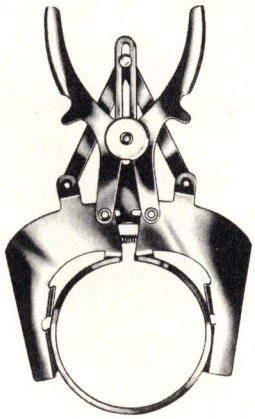
Designed to cut clear across the ridge without "feed-up"; employs a tilting combination cutter and stop. Locates completely within cylinder—may be placed at any depth desired. Ideal for small motors—has a range of 2" to 3". Equipped with Carbon Steel Cutter.

Number	Range	Weight
ZT-2150	2" to 3"	1 lb. 2 oz.

PISTON RING EXPANDER

Easily removes and installs piston rings without danger of damage or distortion to rings. Work is done quickly and effortlessly. Piston is steadied with one hand and the tool operated with the other hand. No adjustments to make—all rings are expanded with equal facility, whether step cut or diagonal cut. Made entirely of steel, this practical and sturdy tool has a capacity of 1¼″ to 2¼″.

Number	Capacity	Weight
ZT-1275	1¼″ to 2¼″	8 oz.

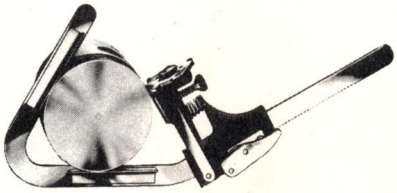


ZT-1275

PISTON GROOVE CLEANER

A precision tool for small engines, this rigidly constructed piston groove cleaner features a provision for limiting the depth of cut. No gouging results in the groove or elsewhere. All adjustments are made quickly and easily. Capacity is 2″ to 3″. Contains five points for grooving and one for trimming lands which are combined in one blade. Cutter is carefully hardened and ground.

Number	Capacity	Weight
ZT-1263	2″ to 3″	1 lb.

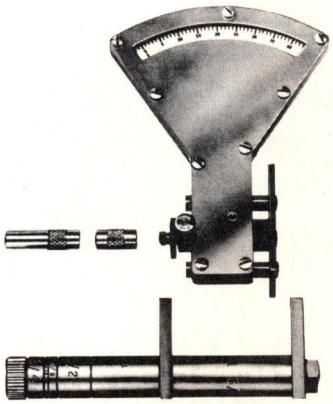


ZT-1263

CYLINDER BORE GAUGE

For small engines—range 1¾″ to 3¼″. **Approved for Briggs & Stratton Engines.** Designed to be pre-set to get a zero reading at the exact original diameter of the engine cylinder to be worked on. When placed in the cylinder, any reading above zero on the dial will indicate in thousandths of an inch the exact amount of wear at any given point. The spring pressed guideplate allows the gauge to be rotated or slid up or down, still maintaining the vertical position necessary for accurate readings. A "Setter" for pre-setting the gauge to zero is furnished with each gauge.

Number	Capacity	Weight
MT-345	1¾″ to 3¼″	1¼ lbs.

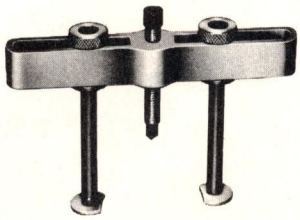


MT-345

SMALL ENGINE FLYWHEEL PULLER

Easily removes flywheels and crankshaft pulleys on outboard motors, small garden tractors, snow blowers and self-propelled lawn mowers without damage to other parts. Also removes clutch cones from self-propelled lawn mowers.

Number	Capacity	Weight
ET-1380	0″ to 9″	6 lbs. 4 oz.



ET-1380

Blackhawk™ HAND TOOLS

NO. 697B 102 PIECE HIGH PERFORMANCE TOOL SET

3/8" DRIVE — 12 POINT SOCKETS

Number		Number	
30010	5/16"	30020	5/8"
30612	3/8"	30022	11/16"
30614	7/16"	30024	3/4"
30616	1/2"	30026	13/16"
30618	9/16"	30028	7/8"

3/8" DRIVE EXTRA DEEP 6 POINT SOCKETS

Number		Number	
HW-1512	3/8"	HW-1520	5/8"
HW-1514	7/16"	HW-1522	11/16"
HW-1516	1/2"	HW-1524	3/4"
HW-1518	9/16"	HW-1524S	13/16" Rubberlined Spark Plug Socket

3/8" DRIVE 6 POINT FLEX SOCKETS

Number		Number	
30216	1/2"	30218	9/16"

3/8" DRIVE PARTS

Number		Number	
34945	45 Tooth Ratchet	34984	6" Extension
34947	Gyro-Flex Ratchet	34986	10" Flex Handle
34982	16 1/8" Speeder	34987	11" Extension
34983	19" Extension	34993	Universal Joint

111-B 11 PIECE 1/4" DRIVE SET

OPEN END WRENCHES

Number		Number	
4020	1/4"x5/16" O. E.	4725B	1/2"x9/16" O. E.
4723	3/8"x7/16" O. E.	4727	9/16"x5/8" O. E.
4725	7/16"x1/2" O. E.	4729	5/8"x3/4" O. E.

6 POINT COMBINATION WRENCHES

Number		Number	
BW-1158H	5/16"	BW-1162H	1/2"
BW-1160H	3/8"	BW-1163H	9/16"
BW-1161H	7/16"		

12 POINT COMBINATION WRENCHES

Number		Number	
BW-1164	5/8"	BW-1167A	7/8"
BW-1165	11/16"	BW-1167	5/16"
BW-1166	3/4"		

OTHER TOOLS

Number	
ST-1004	7 1/2" Heavy Round Shank Screw Driver
ST-1010	15" Heavy Round Shank Screw Driver
ST-1026	10 1/4" Heavy Square Shank Screw Driver
ST-1082	No. 2 Phillips Head Screw Driver (4" Bar Length)
ST-1140	No. 2 Stubby Phillips Head Screw Driver (1 1/2" Blade Length)
ST-1146	3 5/8" Adj. Screw Driver
ST-1046	9 1/2" Electrician's Round Shank Screw Driver
ST-1214	Spark Detecting Screw Driver
HT-1005-1	Ball Pein Hammer
ZW-1120	Lever Jaw Wrench
ZW-58	10 Piece Hex Key Wrench Set
AW-1008	Adjustable Wrench
PT-1002	Slip Joint Plier
PT-1128	Long Nose Sidecutting Plier
PT-1057	Diagonal Cutting Pliers
EW-40	10 Piece Ignition Set
EW-48	Snap Gap Set
ET-3000	Electric Tester
ZT-1193	Magnetic Pick-Up Tool
XT-1014	Distributor-Carburetor Adj. Tool
12164	Sports Rally Tool Box

For many years, mechanics have chosen Blackhawk Hand Tools with complete confidence, knowing the tools they purchase are of the finest quality on the market. NOW Blackhawk Hand Tools proudly announces a completely new line to its famous list of professional tools
— A FULL RANGE OF QUALITY-TESTED HAND TOOLS FOR CARPENTERS.

HAND SAWS

Polished blades are tempered for flexibility and resilience; perfectly balanced. Teeth precision filed and set. Form-fit engraved handles are made of finest grade hickory.

Number	
FT-16	26″ Crosscut — 8 Point

ADJUSTABLE BLOCK PLANE

Fully adjustable cutter for shaving thickness and evenness of shaving. Hardwood knob, smooth bottom.

Number	Length	Cutter
CT-902	7″	1⅝″

ADJUSTABLE JACK PLANE

Easily adjustable for thickness and evenness of shaving. Accurately balanced. Choice hardwood handle and knob. Smooth bottom.

Number	Length	Cutter
CT-910	9″	2″

FINISHING PLANE

Ideal for surface trimming and forming work on wood, aluminum, copper, plastics, tile, laminated counter tops and soft metals. Aluminum body with plastic handle. Non-clogging cutting edges. Reversible blade for longer tool life.

Number	Size
FT-280	10″

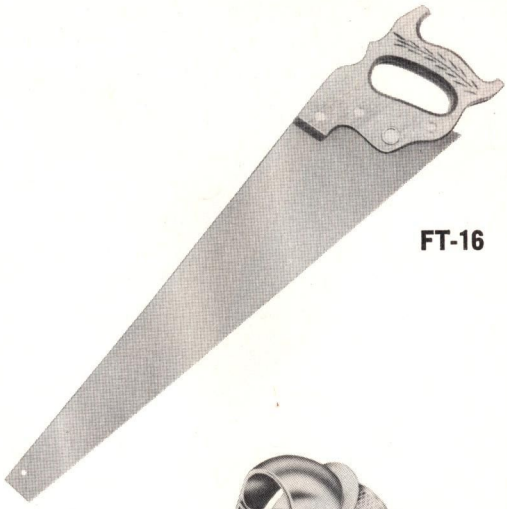
REPLACEMENT BLADES

Number **FT-282**

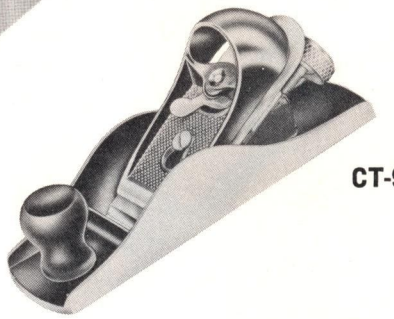
Half Round: Regular Cut — Ideal for concave and circular surfaces of wood, plastics, etc. Non-reversible blade. Fits No. FT-280 tool.

Number **FT-284**

Flat: Regular Cut — For most ordinary cutting of wood, etc. Reversible blade. Fits No. FT-280 tool.

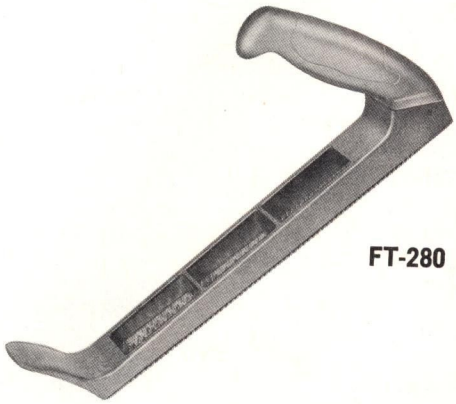


FT-16



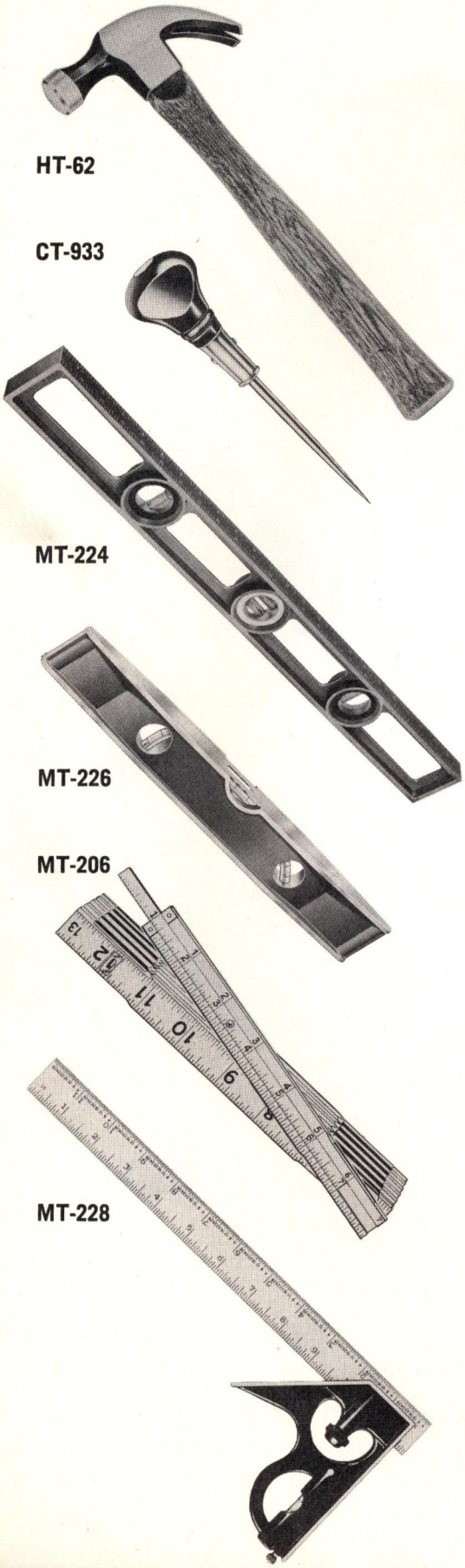
CT-902

CT-910



FT-280

Blackhawk™ HAND TOOLS



HEAVY DUTY NAIL HAMMER

Polished head of alloy steel is super heat treated. Precision ground curved claw. Select lacquered hickory handle. Multiple wedging for permanently tight head and handle. Perfectly balanced.

Number	Weight
HT-62	16 oz.

SCRATCH AWL

Rugged tool for tough use. Ideal for accurate marking, aligning, piercing sheet metal and enlarging holes.

Number	Length	Weight
CT-933	8½″	1 oz.

MEDIUM WEIGHT ALUMINUM LEVEL

Made of die-cast aluminum, these new levels feature reinforced corners and extra heavy windows to protect and seal vials from dirt and moisture. Two plumb — two level vials.

Number	Length	Weight
MT-224	24″	1½ lb.

ALUMINUM TORPEDO LEVEL

Lightweight die cast aluminum. Top plate is cemented in place eliminating screws or sharp edges. Three clear-view vials — plumb, level and 45 degree.

Number	Length	Weight
MT-226	9″	4 oz.

EXTENSION RULE

6 foot, four-way extension rule. 6 inch, brass slide for depth measuring. Brass tips with brass plated protector plates. Boxwood finish — thick sticks.

Number	Length	Weight
MT-206	6 Ft.	2.2 lbs.

COMBINATION SQUARE

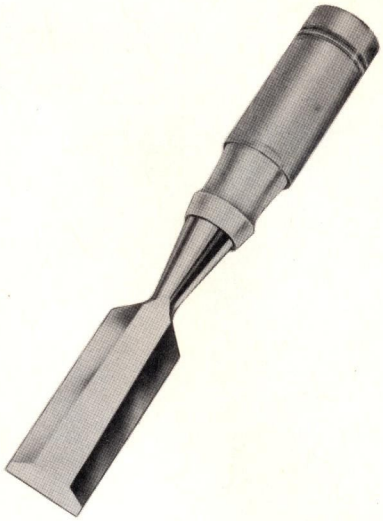
Steel blades are machine graduated in 8ths and 16ths on the grooved side, and 16ths and 32nds on the flat side, with quick reading figures on the 32nd graduations. Double hairline level vial has cats-eye filler for ease in sighting. Built-in scribe for handy marking. Durable black finish on square head. Blade has ground edges. Individually boxed.

Number	Length	Weight
MT-228	12″	14 oz.

HEAVY DUTY WOOD CHISELS

Super-tough — two-tone composition handle made of unbreakable Tenite that will withstand the heaviest of hammer blows. Blade and tang forged from one piece of alloy tool steel.

Number	Diameter	Weight
CT-0342	1/4"	8 oz.
CT-0344	3/8"	1.1 lb.
CT-0346	1/2"	1.2 lb.
CT-0348	3/4"	1.3 lb.
CT-0350	1"	1.7 lb.



CT-0342
to
CT-0350

PUSH DRILL

Chuck holds drill points firmly so they cannot be pulled out. Comes with three regular drill points in plastic magazine handle.

Number	Weight
DT-0105	1.5 lbs.

PUSH DRILL BITS

Number	Diameter
HSD-300	1/16"
HSD-302	5/64"
HSD-304	3/32"
HSD-306	7/64"
HSD-308	1/8"
HSD-310	9/64"
HSD-312	5/32"
HSD-314	11/64"

DT-0105

UTILITY BAR

Ideal for pulling, prying, lifting, scraping. Made of forged tool steel for extra toughness. Has ground and beveled cutting edges and beveled nail slot on both ends.

Number	Size
CT-938	1 3/4" x 13 3/8"

CT-938

Conversion Chart

CONVERSION CHART SHOWING MILLIMETER SIZES, FRACTIONAL AND DECIMAL INCH SIZES

Milli-Meter	Dec. Equiv.	Frac-Tional	Milli-Meter	Dec. Equiv.	Frac-tional	Milli-Meter	Dec. Equiv.	Frac-tional	Milli-Meter	Dec. Equiv.	Frac-tional	Milli-Meter	Dec. Equiv.	Frac-tional
.1	.0039		1.75	.0689		....	.1570		6.8	.2677		10.72	.4219	27/64
.15	.0059		....	.0700		4.0	.1575		6.9	.2716		11.0	.4330	
.2	.0079		1.8	.0709		....	.1590		....	.2720		11.11	.4375	7/16
.25	.0098		1.85	.0728		....	.1610		7.0	.2756		11.5	.4528	
.3	.0118		....	.0730		4.1	.1614		....	.2770		11.51	.4531	29/64
....	.0135		1.9	.0748		4.2	.1654		7.1	.2795		11.91	.4687	15/32
.35	.0138		....	.0760		....	.1660		....	.2811		12.0	.4724	
....	.0145		1.95	.0767		4.25	.1673		7.14	.2812	9/32	12.30	.4843	31/64
.39	.0156	1/64	1.98	.0781	5/64	4.3	.1693		7.2	.2835		12.5	.4921	
.4	.0157		....	.0785		....	.1695		7.25	.2854		12.7	.5000	1/2
....	.0160		2.0	.0787		4.37	.1719	11/64	7.3	.2874		13.0	.5118	
.45	.0177		2.05	.0807		....	.1730		....	.2900		13.10	.5156	33/64
....	.0180		....	.0810		4.4	.1732		7.4	.2913		13.49	.5312	17/32
.5	.0197		....	.0820		....	.1770		....	.2950		13.5	.5315	
....	.0200		2.1	.0827		4.5	.1771		7.5	.2953		13.89	.5469	35/64
....	.0210		2.15	.0846		....	.1800		7.54	.2968	19/64	14.0	.5512	
.55	.0217		....	.0860		4.6	.1811		7.6	.2992		14.29	.5625	9/16
....	.0225		2.2	.0866		....	.1820		....	.3020		14.5	.5709	
.6	.0236		2.25	.0885		4.7	.1850		7.7	.3031		14.68	.5781	37/64
....	.0240		....	.0890		4.75	.1870		7.75	.3051		15.0	.5906	
....	.0250		2.3	.0905		4.76	.1875	3/16	7.8	.3071		15.08	.5937	19/32
.65	.0256		2.35	.0925		4.8	.1890		7.9	.3110		15.48	.6094	39/64
....	.0260		....	.0935		....	.1910		7.94	.3125	5/16	15.5	.6102	
....	.0280		2.38	.0937	3/32	4.9	.1929		8.0	.3150		15.88	.6250	5/8
.7	.0276		2.4	.0945		....	.1935		....	.3160		16.0	.6299	
....	.0292		....	.0960		....	.1960		8.1	.3189		16.27	.6406	41/64
.75	.0295		2.45	.0964		5.0	.1968		8.2	.3228		16.5	.6496	
....	.0310		....	.0980		....	.1990		....	.3230		16.67	.6562	21/32
.79	.0312	1/32	2.5	.0984		5.1	.2008		8.25	.3248		17.0	.6693	
.8	.0315		....	.0995		....	.2010		8.3	.3268		17.06	.6719	43/64
....	.0320		....	.1015		5.16	.2031	13/64	8.33	.3281	21/64	17.46	.6875	11/16
....	.0330		2.6	.1024		....	.2040		8.4	.3307		17.5	.6890	
.85	.0335		....	.1040		5.2	.2047		....	.3320		17.86	.7031	45/64
....	.0350		2.7	.1063		....	.2055		8.5	.3346		18.0	.7087	
.9	.0354		....	.1065		5.25	.2067		8.6	.3386		18.26	.7187	23/32
....	.0360		2.75	.1082		5.3	.2086		....	.3390		18.5	.7283	
....	.0370		2.78	.1094	7/64	....	.2090		8.7	.3425		18.65	.7344	47/64
.95	.0374		....	.1100		5.4	.2126		8.73	.3437	11/32	19.0	.7480	
....	.0380		2.8	.1102		....	.2130		8.75	.3445		19.05	.7500	3/4
....	.0390		....	.1110		5.5	.2165		8.8	.3465		19.45	.7656	49/64
1.0	.0394		....	.1130		5.56	.2187	7/32	....	.3480		19.5	.7677	
....	.0400		2.9	.1141		5.6	.2205		8.9	.3504		19.84	.7812	25/32
....	.0410		....	.1160		....	.2210		9.0	.3543		20.0	.7874	
1.05	.0413		3.0	.1181		5.7	.2244		....	.3580		20.24	.7969	51/64
....	.0420		....	.1200		5.75	.2263		9.1	.3583		20.5	.8071	
....	.0430		3.1	.1220		....	.2280		9.13	.3594	23/64	20.64	.8125	13/16
1.1	.0433		3.18	.1250	1/8	5.8	.2283		9.2	.3622		21.0	.8268	
1.15	.0452		3.2	.1260		5.9	.2323		9.25	.3641		21.03	.8281	53/64
....	.0465		3.25	.1279		....	.2340		9.3	.3661		21.43	.8437	27/32
1.19	.0469	3/64	....	.1285		5.95	.2344	15/64	....	.3680		21.5	.8465	
1.2	.0472		3.3	.1299		6.0	.2362		9.4	.3701		21.83	.8594	55/64
1.25	.0492		3.4	.1338		....	.2380		9.5	.3740		22.0	.8661	
1.3	.0512		....	.1360		6.1	.2401		9.53	.3750	3/8	22.23	.8750	7/8
....	.0520		3.5	.1378		....	.2420		....	.3770		22.5	.8858	
1.35	.0531		....	.1405		6.2	.2441		9.6	.3780		22.62	.8906	57/64
....	.0550		3.57	.1406	9/64	6.25	.2460		9.7	.3819		23.0	.9055	
1.4	.0551		3.6	.1417		6.3	.2480		9.75	.3838		23.02	.9062	29/32
1.45	.0570		....	.1440		6.35	.2500	1/4	9.8	.3858		23.42	.9219	59/64
1.5	.0591		3.7	.1457		6.4	.2520		....	.3860		23.5	.9252	
....	.0595		....	.1470		6.5	.2559		9.9	.3898		23.81	.9375	15/16
1.55	.0610		3.75	.1476		....	.2570		9.92	.3906	25/64	24.0	.9449	
1.59	.0625	1/16	....	.1495		6.6	.2598		10.0	.3937		24.21	.9531	61/64
1.6	.0629		3.8	.1496		....	.2610		....	.3970		24.5	.9646	
....	.0635		....	.1520		6.7	.2638		....	.4040		24.61	.9687	31/32
1.65	.0649		3.9	.1535		6.75	.2656	17/64	10.32	.4062	13/32	25.0	.9843	
1.7	.0669		....	.1540		6.75	.2657		....	.4130		25.03	.9844	63/64
....	.0670		3.97	.1562	5/32	....	.2660		10.5	.4134		25.4	1.0000	1

Blackhawk™
HAND TOOLS

WARRANTY

We warrant Blackhawk Hand Tools to be free of defects in workmanship and materials under normal use and service. Our obligation under this warranty is limited to replacing, without charge, any tool found to be defective, provided that such tool is promptly returned to our factory, transportation prepaid. We shall not be liable for direct, indirect, special or consequential damages arising from such defects or for replacing any tool which has been abused or misused.

THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Litton HAND TOOLS
New Britain, Connecticut 06050